



## WATER-COOLED SCREW LIQUID CHILLERS

RENEWAL PARTS

Supersedes: 201.30-RP1 (517)

Form 201.30-RP1 (622)

### MODEL YVWA STYLE A SINGLE AND DUAL COMPRESSOR 50Hz and 60Hz 120 - 300 Tons 420 - 1055 kW



R-134a  
and  
R-513A



Issue Date:  
June 10, 2022



# 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:



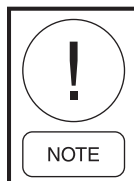
*Indicates a possible hazardous situation which will result in death or serious injury if proper care is not taken.*



*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 Johnson Controls' published specifications and must be performed only by a qualified electrician. Johnson Controls 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 Johnson Controls' policy for continuous product improvement, the information contained in this document is subject to change without notice. Johnson Controls 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 the nearest Johnson Controls Service office or accessing the Johnson Controls Knowledge Exchange website at <https://docs.johnsoncontrols.com/chillers/>.

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, rigging, 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.

## REVISION NOTES

Revisions made to this document are indicated in the following table. These revisions are to technical information, and any other changes in spelling, grammar, or formatting are not included.

| AFFECTED PAGES | DESCRIPTION                                          |
|----------------|------------------------------------------------------|
| 98             | Corrected part number 013-02987-000 to 013-04129-000 |

## ASSOCIATED LITERATURE

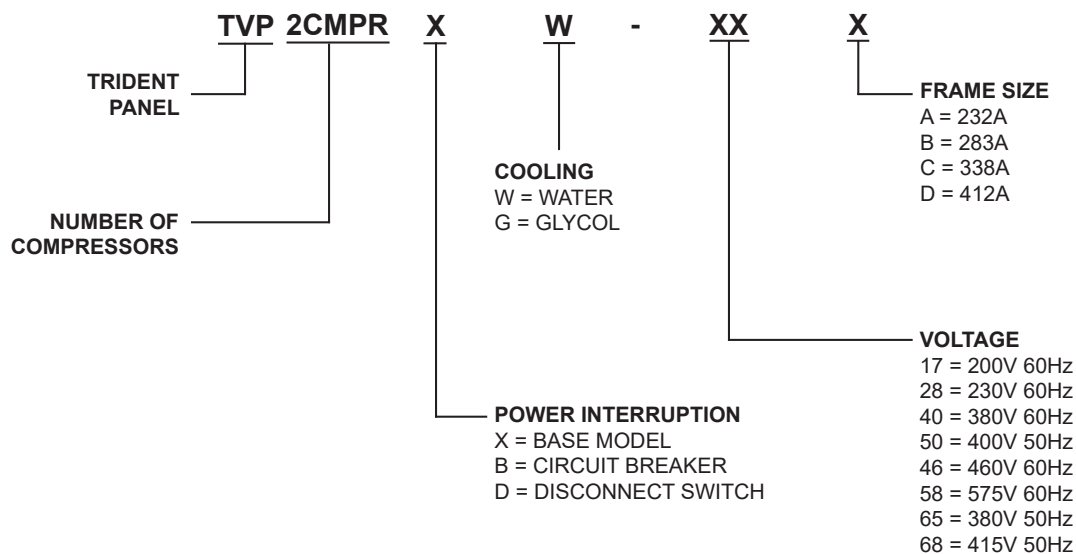
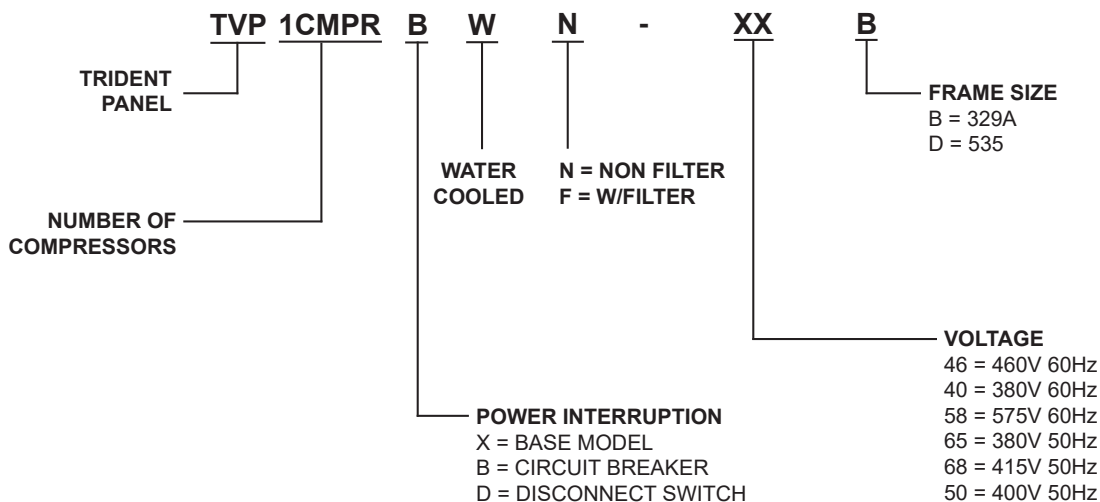
| MANUAL DESCRIPTION                                                          | FORM NUMBER  |
|-----------------------------------------------------------------------------|--------------|
| Unit Installation, Operation and Maintenance (Single Compressor)            | 201.30-ICOM1 |
| Unit Installation, Operation and Maintenance (Dual Compressor)              | 201.30-ICOM2 |
| Wiring Diagram - Field Connections and Control for YVWA (Single Compressor) | 201.30-PW1   |

## REGIONAL ACRONYMS

| DESCRIPTION                              | Acronym |
|------------------------------------------|---------|
| American Society of Mechanical Engineers | ASME    |
| Canadian Electrical                      | CE      |
| Guo Baio or Chinese National Standard    | GB      |
| European Pressure Equipment Directive    | PED     |



## VARIABLE SPEED DRIVE NOMENCLATURES



## COMPLETE PIN NUMBER DESCRIPTION

| FEATURE                                                                                   | DESCRIPTION             | OPTION                                                                   | DESCRIPTION          |
|-------------------------------------------------------------------------------------------|-------------------------|--------------------------------------------------------------------------|----------------------|
| MODEL                                                                                     | Model (PIN 1)           | Y                                                                        | YORK                 |
| COMPRTPY                                                                                  | Compressor Type (PIN 2) | V                                                                        | Variable Speed Screw |
| CHILLERTYP                                                                                | Chiller Type (PIN 3)    | W                                                                        | Water-Cooled Chiller |
| DESIGNER                                                                                  | Design Series (PIN 4)   | A                                                                        | Design Series        |
| <div>EVAPORATOR SHELL SIZE</div> <div>Tube Count x Tube Nominal Size<br/>(PIN 5, 6)</div> | BB                      | 8 ft (2.4 m) x 22 in (558 mm), 120 x 0.75 in (19 mm)                     |                      |
|                                                                                           | BC                      | 8 ft (2.4 m) x 22 in (558 mm), 140 x 0.75 in (19 mm)                     |                      |
|                                                                                           | BD                      | 8 ft (2.4 m) x 22 in (558 mm), 160 x 0.75 in (19 mm)                     |                      |
|                                                                                           | CB                      | 10 ft (3.0 m) x 22 in (558 mm), 120 x 0.75 in (19 mm)                    |                      |
|                                                                                           | CC                      | 10 ft (3.0 m) x 22 in (558 mm), 140 x 0.75 in (19 mm)                    |                      |
|                                                                                           | CD                      | 10 ft (3.0 m) x 22 in (558 mm), 160 x 0.75 in (19 mm)                    |                      |
|                                                                                           | DB                      | 12 ft (3.6 m) x 22 in (558 mm), 120 x 0.75 in (19 mm)                    |                      |
|                                                                                           | DC                      | 12 ft (3.6 m) x 22 in (558 mm),140 x 0.75 in (19 mm)                     |                      |
|                                                                                           | DD                      | 12 ft (3.6 m) x 22 in (558 mm), 160 x 0.75 in (19 mm)                    |                      |
|                                                                                           | MB                      | 12 ft (3.6 m) x 24 in (610 mm), 160 x 0.75 in (19 mm)                    |                      |
|                                                                                           | MC                      | 12 ft (3.6 m) x 24 in (610 mm), 200 x 0.75 in (19 mm)                    |                      |
|                                                                                           | MD                      | 12 ft (3.6 m) x 24 in (610 mm), 230 x 0.75 in (19 mm)                    |                      |
|                                                                                           | ME                      | 12 ft (3.6 m) x 24 in (610 mm), 260 x 0.75 in (19 mm)                    |                      |
|                                                                                           | NB                      | 14 ft (4.2 m) x 24 in (610 mm), 160 x 0.75 in (19 mm)                    |                      |
|                                                                                           | NC                      | 14 ft (4.2 m) x 24 in (610 mm), 200 x 0.75 in (19 mm)                    |                      |
|                                                                                           | ND                      | 14 ft (4.2 m) x 24 in (610 mm), 230 x 0.75 in (19 mm)                    |                      |
|                                                                                           | NE                      | 14 ft (4.2 m) x 24 in (610 mm), 260 x 1 in (25 mm)                       |                      |
|                                                                                           | M2                      | 12 ft (3.6 m) x 24 in (610 mm), 80 x 1 in (25 mm)                        |                      |
|                                                                                           | M3                      | 12 ft (3.6 m) x 24 in (610 mm), 95 x 1 in (25 mm)                        |                      |
|                                                                                           | M4                      | 12 ft (3.6 m) x 24 in (610 mm), 110 x 1 in (25 mm)                       |                      |
|                                                                                           | M5                      | 12 ft (3.6 m) x 24 in (610 mm), 129 x 1 in (25 mm)                       |                      |
|                                                                                           | N2                      | 14 ft (4.2 m) x 24 in (610 mm), 80 x 1 in (25 mm)                        |                      |
|                                                                                           | N3                      | 14 ft (4.2 m) x 24 in (610 mm), 95 x 1 in (25 mm)                        |                      |
|                                                                                           | N4                      | 14 ft (4.2 m) x 24 in (610 mm), 110 x 1 in (25 mm)                       |                      |
|                                                                                           | N5                      | 14 ft (4.2 m) x 24 in (610 mm), 129 x 1 in (25 mm)                       |                      |
| <div>CONDENSER SHELL SIZE</div> <div>Tube Count x Tube Nominal Size<br/>(PIN 7, 8)</div>  | BB                      | 8 ft (2.4 m) x 18 in (457 mm), 140 x 0.75 in (19 mm)                     |                      |
|                                                                                           | BC                      | 8 ft (2.4 m) x 18 in (457 mm), 160 x 0.75 in (19 mm)                     |                      |
|                                                                                           | BD                      | 8 ft (2.4 m) x 18 in (457 mm), 175 x 0.75 in (19 mm)                     |                      |
|                                                                                           | CB                      | 10 ft (3.0 m) x 18 in (457 mm), 140 x 0.75 in (19 mm)                    |                      |
|                                                                                           | CC                      | 10 ft (3.0 m) x 18 in (457 mm), 160 x 0.75 in (19 mm)                    |                      |
|                                                                                           | CD                      | 10 ft (3.0 m) x 18 in (457 mm), 175 x 0.75 in (19 mm)                    |                      |
|                                                                                           | DB                      | 12 ft (3.6 m) x 18 in (457 mm), 140 x 0.75 in (19 mm)                    |                      |
|                                                                                           | DC                      | 12 ft (3.6 m) x 18 in (457 mm), 160 x 0.75 in (19 mm)                    |                      |
|                                                                                           | DD                      | 12 ft (3.6 m) x 18 in (457 mm), 175 x 0.75 in (19 mm)                    |                      |
|                                                                                           | MB                      | 12 ft (3.6 m) x 20 in (508 mm), 162 x 0.75 in (19 mm)                    |                      |
|                                                                                           | MC                      | 12 ft (3.6 m) x 20 in (508 mm), 191 x 0.75 in (19 mm)                    |                      |
|                                                                                           | MD                      | 12 ft (3.6 m) x 20 in (508 mm), 211 x 0.75 in (19 mm)                    |                      |
|                                                                                           | ME                      | 12 ft (3.6 m) x 20 in (508 mm), 200 x 0.75 in (19 mm)                    |                      |
|                                                                                           | NB                      | 14 ft (4.2 m) x 20 in (508 mm), 162 x 0.75 in (19 mm)                    |                      |
|                                                                                           | NC                      | 14 ft (4.2 m) x 20 in (508 mm), 191 x 0.75 in (19 mm)                    |                      |
|                                                                                           | ND                      | 14 ft (4.2 m) x 20 in (508 mm), 211 x 0.75 in (19 mm)                    |                      |
|                                                                                           | NE                      | 14 ft (4.2 m) x 20 in (508 mm), 200 x 0.75 in (19 mm)                    |                      |
|                                                                                           | M2                      | 12 ft (3.6 m) x 20 in (508 mm), 72 x 1 in (25 mm), 18 x 0.75 in (19 mm)  |                      |
|                                                                                           | M3                      | 12 ft (3.6 m) x 20 in (508 mm), 90 x 1 in (25 mm), 18 x 0.75 in (19 mm)  |                      |
|                                                                                           | M4                      | 12 ft (3.6 m) x 20 in (508 mm), 107 x 1 in (25 mm), 18 x 0.75 in (19 mm) |                      |
|                                                                                           | M5                      | 12 ft (3.6 m) x 20 in (508 mm), 123 x 1 in (25 mm), 18 x 0.75 in (19 mm) |                      |
|                                                                                           | N2                      | 14 ft (4.2 m) x 20 in (508 mm), 72 x 1 in (25 mm), 18 x 0.75 in (19 mm)  |                      |
|                                                                                           | N3                      | 14 ft (4.2 m) x 20 in (508 mm), 90 x 1 in (25 mm), 18 x 0.75 in (19 mm)  |                      |
|                                                                                           | N4                      | 14 ft (4.2 m) x 20 in (508 mm), 107 x 1 in (25 mm), 18 x 0.75 in (19 mm) |                      |
|                                                                                           | N5                      | 14 ft (4.2 m) x 20 in (508 mm), 123 x 1 in (25 mm), 18 x 0.75 in (19 mm) |                      |

## COMPLETE PIN NUMBER DESCRIPTION (CONT'D)

| FEATURE        | DESCRIPTION                           | OPTION | DESCRIPTION                    |
|----------------|---------------------------------------|--------|--------------------------------|
| <b>CMPR</b>    | Compressor Driveline (PIN 9, 10)      | FX     | 1 CMPR (145mm)                 |
|                |                                       | GX     | 1 CMPR (151mm)                 |
|                |                                       | HX*    | 1 CMPR (170mm)                 |
|                |                                       | EE     | 2 CMPR (136mm/136mm)           |
|                |                                       | FE     | 2 CMPR (145mm/136mm)           |
|                |                                       | FF     | 2 CMPR (145mm/145mm)           |
|                |                                       | QQ     | Special Quote                  |
| <b>STARTER</b> | Starter (PIN 11)                      | A      | 2 CMPR Frame A                 |
|                |                                       | B      | 2 CMPR Frame B                 |
|                |                                       | C      | 2 CMPR Frame C                 |
|                |                                       | D      | 2 CMPR Frame D                 |
|                |                                       | J      | 1 CMPR Frame B                 |
|                |                                       | L      | 1 CMPR Frame D                 |
|                |                                       | Q      | Special Quote                  |
| <b>PASS</b>    | Pass Arrangement (PIN 12)             | A      | Evap: 1pass; Cond: 1pass       |
|                |                                       | B      | Evap: 2pass; Cond: 1pass       |
|                |                                       | C      | Evap: 3pass; Cond: 1pass       |
|                |                                       | D      | Evap: 1pass; Cond: 2pass       |
|                |                                       | E      | Evap: 2pass; Cond: 2pass       |
|                |                                       | F      | Evap: 3pass; Cond: 2pass       |
|                |                                       | G      | Evap: 1pass; Cond: 3pass       |
|                |                                       | H      | Evap: 2pass; Cond: 3pass       |
|                |                                       | I      | Evap: 3pass; Cond: 3pass       |
|                |                                       | Q      | Special Quote                  |
| <b>NOMCAP</b>  | Nominal Capacity (PIN 13, 14, 15, 16) | ASIA   | Asia Region for Marketing      |
|                |                                       | ####   | kW for Europe for Marketing    |
|                |                                       | ####   | TR for NA Region for Marketing |
| <b>APPL</b>    | Application (PIN 17)                  | S      | Cooling Only Unit              |
|                |                                       | D      | Dry Tower                      |
|                |                                       | P      | Process Brine                  |
|                |                                       | T      | Ice Thermal Storage Unit       |
|                |                                       | A      | Heat Pump Unit                 |
|                |                                       | F      | Heat Recovery                  |
|                |                                       | I      | Process Brine & Dry Tower      |
|                |                                       | Q      | Special Quote                  |
| <b>MODLVL</b>  | Modification Level A (PIN 18)         | A      | Modification Level A           |
| <b>PIN19</b>   | PIN19                                 | X      | No Selection                   |
|                |                                       | Q      | Special Quote                  |



## COMPLETE PIN NUMBER DESCRIPTION (CONT'D)

| FEATURE  | DESCRIPTION                                      | OPTION | DESCRIPTION                     |
|----------|--------------------------------------------------|--------|---------------------------------|
| VOLTS    | Voltage<br>(PIN 20, 21)                          | 17     | 200/3/60                        |
|          |                                                  | 28     | 230/3/60                        |
|          |                                                  | 40     | 380/3/60                        |
|          |                                                  | 46     | 460/3/60                        |
|          |                                                  | 65     | 380/3/50                        |
|          |                                                  | 50     | 400/3/50                        |
|          |                                                  | 68     | 415/3/50                        |
|          |                                                  | 58     | 575/3/60                        |
|          |                                                  | Q      | Special Quote                   |
| POWER    | Power Field<br>(PIN 22)                          | D      | NF Discon Switch, Lockable      |
|          |                                                  | B      | Circuit Breaker, Lockable       |
|          |                                                  | S      | Supply terminal block           |
|          |                                                  | Q      | Special Quote                   |
| FILTER   | Harmonic Filter<br>(PIN 23)                      | X      | No Selection                    |
|          |                                                  | Q      | Special Quote                   |
| SYSPARM  | System Parameter<br>(PIN 24)                     | X      | No Selection                    |
|          |                                                  | Q      | Special Quote                   |
| CONTENCL | Control Panel and VSD<br>Enclosure Type (PIN 25) | S      | Ctrl/VSD:N1/IP33, AT:N1/IP33    |
|          |                                                  | Q      | Special Quote                   |
| NEMA     | Unit NEMA Type<br>(PIN 26)                       | S      | Unit: NEMA1 or IP20             |
|          |                                                  | Q      | Special Quote                   |
| VSDCOOL  | VSD Cooling Source<br>(PIN 27)                   | X      | No Selection                    |
|          |                                                  | S      | Std VSD Cooling (via. Cond)     |
|          |                                                  | H      | Hi-temp VSD Cooling (via. Evap) |
|          |                                                  | Q      | Special Quote                   |
| PANEL    | Panel Options<br>(PIN 28)                        | X      | No Selection                    |
|          |                                                  | Q      | Special Quote                   |
| BAS      | BAS Interface<br>(PIN 29)                        | X      | No Selection                    |
|          |                                                  | B      | BAS/EMS Temp, Cur Reset/Offset  |
|          |                                                  | C      | BAS/EMS Current Reset/Offset    |
|          |                                                  | T      | BAS/EMS Temp Reset/Offset       |
|          |                                                  | A      | BACnet Elink (factory mounted)  |
|          |                                                  | M      | Modbus Elink (factory mounted)  |
|          |                                                  | L      | LON Elink (factory mounted)     |
|          |                                                  | N      | N2 Elink (factory mounted)      |
|          |                                                  | Q      | Special Quote                   |

## COMPLETE PIN NUMBER DESCRIPTION (CONT'D)

| FEATURE   | DESCRIPTION                              | OPTION | DESCRIPTION                       |
|-----------|------------------------------------------|--------|-----------------------------------|
| LANGDESP  | Language Display<br>(PIN 30)             | A      | English                           |
|           |                                          | F      | French                            |
|           |                                          | S      | Spanish                           |
|           |                                          | G      | German                            |
|           |                                          | P      | Portuguese                        |
|           |                                          | I      | Italian                           |
|           |                                          | H      | Hungarian                         |
|           |                                          | L      | Polish                            |
|           |                                          | E      | Chinese, Simplified               |
| SAFETY    | Safety Code<br>(PIN 31)                  | G      | China Safety Code (GB)            |
|           |                                          | C      | European Safety Code ( CE )       |
|           |                                          | L      | N American Safety Code (cUL/cETL) |
|           |                                          | Q      | Special Quote                     |
| REMOTEPNL | Remote Panel<br>(PIN 32)                 | X      | No Selection                      |
|           |                                          | Q      | Special Quote                     |
| SEQ       | Sequence Kit<br>(PIN 33)                 | X      | No Selection                      |
|           |                                          | Q      | Special Quote                     |
| UNLOAD    | Unloading<br>(PIN 34)                    | S      | Standard Unloading                |
|           |                                          | Q      | Special Quote                     |
| PIN35     | PIN 35                                   | X      | No Selection                      |
|           |                                          | Q      | Special Quote                     |
| PIPING    | Piping Code<br>(PIN 36)                  | X      | No Selection                      |
|           |                                          | R      | Dual Relief Valves                |
|           |                                          | C      | Chicago Relief Code               |
|           |                                          | Q      | Special Quote                     |
| METERDEV  | Metering Device<br>(PIN 37)              | E      | EEV                               |
|           |                                          | Q      | Special Quote                     |
| VALVE     | Valve Options<br>(PIN 38)                | X      | No Selection                      |
|           |                                          | B      | Condenser Isolation Valves        |
|           |                                          | Q      | Special Quote                     |
| BYPASS    | Hot Gas Bypass<br>(PIN 39)               | X      | No Selection                      |
|           |                                          | Q      | Special quote                     |
| PIN40     | Liquid Injection Kit<br>(PIN 40)         | X      | No Liquid Injection Kit Required  |
|           |                                          | L      | Liquid Injection Kit              |
|           |                                          | Q      | Special Quote                     |
| REF       | Refrigerant<br>(PIN 41)                  | A      | R-134a                            |
|           |                                          | D      | R-134a is being deducted          |
| CPRVAR    | Compressor Variation<br>(PIN 42)         | W      | 2.3 Vi Compressor                 |
|           |                                          | C      | Optimized 2.3 Vi Compressor       |
|           |                                          | S      | Standard 3.2 Vi Compressor        |
|           |                                          | V      | Optimized 3.2 Vi Compressor       |
|           |                                          | Q      | Special Quote                     |
| CPRFQ     | Compressor Frequency<br>(PIN 43, 44, 45) | # # #  | Compressor Frequency              |
|           |                                          | Q Q Q  | Special Quote                     |

## COMPLETE PIN NUMBER DESCRIPTION (CONT'D)

| FEATURE                  | DESCRIPTION                              | OPTION | DESCRIPTION                              |
|--------------------------|------------------------------------------|--------|------------------------------------------|
| <b>ECON</b>              | Economizer<br>(PIN 46)                   | E      | Economizer                               |
|                          |                                          | Q      | Special Quote                            |
|                          |                                          | X      | No Selection                             |
| <b>PIN47</b>             | PIN 47                                   | X      | No Selection                             |
|                          |                                          | Q      | Special Quote                            |
| <b>FLOW</b>              | Flow Switch<br>per Chiller<br>(PIN 48)   | X      | No Selection                             |
|                          |                                          | S      | One flow switch                          |
|                          |                                          | T      | Two flow switches                        |
|                          |                                          | D      | One diff pressure switch                 |
|                          |                                          | E      | Two diff pressure switches               |
|                          |                                          | G      | One thermal dispersion switch            |
|                          |                                          | H      | Two thermal dispersion switches          |
|                          |                                          | Q      | Special Quote                            |
| <b>INS</b>               | Thermal Insulation<br>(PIN 49)           | X      | No Selection                             |
|                          |                                          | S      | 3/4" insulation Evaporator               |
|                          |                                          | D      | 1-1/2" insulation Evaporator             |
|                          |                                          | E      | 3/4" insulation Evaporator and Condenser |
|                          |                                          | C      | 1-1/2" ins Evaporator and 3/4" Condenser |
|                          |                                          | Q      | Special Quote                            |
| <b>VESSEL</b>            | Vessel Codes<br>(PIN 50)                 | G      | GB Pressure Vessel Codes                 |
|                          |                                          | E      | PED Pressure Vessel Codes                |
|                          |                                          | A      | ASME Pressure Vessel Codes               |
|                          |                                          | Q      | Special Quote                            |
| <b>PIN51</b>             | PIN 51                                   | X      | No Selection                             |
|                          |                                          | Q      | Special Quote                            |
| <b>TEMP</b>              | Evaporator Water Temp<br>(PIN 52, 53)    | # #    | Leaving Evap Water Temp = {LWT} deg      |
|                          |                                          | Q Q    | Special Quote                            |
| <b>EVAP<br/>TUBETYPE</b> | Evaporator Tube Type<br>(PIN 54, 55, 56) | 321    | 0.025 Wall MT#321                        |
|                          |                                          | 322    | 0.028 Wall MT#322                        |
|                          |                                          | 323    | 0.035 Wall MT#323                        |
|                          |                                          | 326    | 0.025 Wall MT#326                        |
|                          |                                          | 327    | 0.028 Wall MT#327                        |
|                          |                                          | 328    | 0.035 Wall MT#328                        |
|                          |                                          | Q Q Q  | Special Quote                            |
| <b>EVAPWB</b>            | Evaporator Water Box Type<br>(PIN 57)    | C      | Compact water boxes                      |
|                          |                                          | M      | Marine water boxes                       |
|                          |                                          | Q      | Special Quote                            |
| <b>EVAPCOAT</b>          | Evaporator Epoxy Coating<br>(PIN 58)     | C      | Compact water boxes                      |
|                          |                                          | Q      | Special Quote                            |
| <b>EVAPHG</b>            | Evaporator Hinges<br>(PIN 59)            | X      | No Selection                             |
|                          |                                          | Q      | Special Quote                            |
| <b>EVAPDWP</b>           | Evaporator Waterside DWP<br>(PIN 60)     | 1      | 150psig DWP waterside                    |
|                          |                                          | 3      | 300psig DWP waterside                    |
|                          |                                          | Q      | Special Quote                            |

## COMPLETE PIN NUMBER DESCRIPTION (CONT'D)

| FEATURE              | DESCRIPTION                                      | OPTION | DESCRIPTION                        |
|----------------------|--------------------------------------------------|--------|------------------------------------|
| <b>EVAPPARR</b>      | Evaporator Nozzle Arrangement (PIN 61)           | A      | AH                                 |
|                      |                                                  | H      | HA                                 |
|                      |                                                  | C      | CB                                 |
|                      |                                                  | K      | KJ                                 |
|                      |                                                  | G      | GN                                 |
|                      |                                                  | P      | PF                                 |
|                      |                                                  | Q      | Special Quote                      |
| <b>EVAPWBCON</b>     | Evaporator Water Connection (PIN 62)             | G      | Groove                             |
|                      |                                                  | D      | DIN / PN weld flanges (field)      |
|                      |                                                  | P      | DIN / PN weld flanges (factory)    |
|                      |                                                  | A      | ANSI welded flanges (field)        |
|                      |                                                  | N      | ANSI welded flanges (factory)      |
|                      |                                                  | H      | HG welded flanges (factory)        |
|                      |                                                  | V      | DIN / PN Victaulic flanges (field) |
|                      |                                                  | C      | ANSI Victaulic flanges (field)     |
|                      |                                                  | Q      | Special Quote                      |
| <b>EVPPFL</b>        | Evaporator Fluid (PIN 63)                        | W      | Water                              |
|                      |                                                  | C      | Calcium Chloride                   |
|                      |                                                  | S      | Sodium Chloride                    |
|                      |                                                  | E      | Ethylene Glycol                    |
|                      |                                                  | P      | Propylene Glycol                   |
|                      |                                                  | Q      | Special Quote                      |
| <b>PIN64</b>         | PIN 64                                           | X      | No Selection                       |
|                      |                                                  | Q      | Special Quote                      |
| <b>CTEMP</b>         | Condenser Leaving Water Temperature (PIN 65, 66) | # #    | -                                  |
|                      |                                                  | Q Q    | Special Quote                      |
| <b>COND TUBETYPE</b> | Condenser Tube Type (PIN 67, 68, 69)             | 201    | 0.028 Wall MT#201                  |
|                      |                                                  | 203    | 0.035 Wall MT#203                  |
|                      |                                                  | 260    | 0.025 Wall MT#260                  |
|                      |                                                  | 261    | 0.028 Wall MT#261                  |
|                      |                                                  | 262    | 0.035 Wall MT#262                  |
|                      |                                                  | 266    | 0.025 Wall MT#266                  |
|                      |                                                  | 267    | 0.028 Wall MT#267                  |
|                      |                                                  | 268    | 0.035 Wall MT#268                  |
|                      |                                                  | 162    | 0.025 Wall MT#162                  |
|                      |                                                  | QQQ    | Special Quote                      |
| <b>CONDWB</b>        | Condenser Water Box Type (PIN 70)                | C      | Compact Waterboxes                 |
|                      |                                                  | M      | Marine Waterboxes                  |
|                      |                                                  | Q      | Special Quote                      |
| <b>CONDCOAT</b>      | Condenser Epoxy Coating (PIN 71)                 | X      | No Selection                       |
|                      |                                                  | C      | Epoxy Endsheets & Waterboxes       |
|                      |                                                  | Q      | Special Quote                      |
| <b>CONDHG</b>        | Condenser Hinges (PIN 72)                        | X      | No Selection                       |
|                      |                                                  | Q      | Special Quote                      |

## COMPLETE PIN NUMBER DESCRIPTION (CONT'D)

| FEATURE          | DESCRIPTION                                   | OPTION | DESCRIPTION                        |
|------------------|-----------------------------------------------|--------|------------------------------------|
| <b>CONDDWP</b>   | Condenser Waterside DWP<br>(PIN 73)           | S      | 150 psig DWP waterside             |
|                  |                                               | H      | 300 psig DWP waterside             |
|                  |                                               | Q      | Special Quote                      |
| <b>CNDARR</b>    | Condenser Nozzle<br>Arrangement<br>(PIN 74)   | A      | AH                                 |
|                  |                                               | H      | HA                                 |
|                  |                                               | C      | CB                                 |
|                  |                                               | K      | KJ                                 |
|                  |                                               | G      | GN                                 |
|                  |                                               | P      | PF                                 |
|                  |                                               | Q      | Special Quote                      |
| <b>CONDWBCON</b> | Condenser Water Box<br>Connection<br>(PIN 75) | G      | Groove                             |
|                  |                                               | D      | DIN / PN welded flanges (field)    |
|                  |                                               | P      | DIN / PN welded flanges (factory)  |
|                  |                                               | A      | ANSI welded flanges (field)        |
|                  |                                               | N      | ANSI welded flanges (factory)      |
|                  |                                               | H      | HG welded flanges (factory)        |
|                  |                                               | V      | DIN / PN Victaulic flanges (field) |
|                  |                                               | C      | ANSI Victaulic flanges (field)     |
|                  |                                               | Q      | Special Quote                      |
| <b>CONPFL</b>    | Condenser Fluid (PIN 76)                      | W      | Water                              |
|                  |                                               | C      | Calcium Chloride                   |
|                  |                                               | S      | Sodium Chloride                    |
|                  |                                               | E      | Ethylene Glycol                    |
|                  |                                               | P      | Propylene Glycol                   |
|                  |                                               | Q      | Special Quote                      |
| <b>PIN 77</b>    | Cond Design Pressure<br>(PIN 77)              | L      | Low Pressure                       |
|                  |                                               | M      | Medium Pressure                    |
|                  |                                               | H      | High Pressure                      |
| <b>NOISERDCT</b> | Noise Reduction Kit<br>(PIN 78)               | X      | No Selection                       |
|                  |                                               | B      | Sound Kit #1                       |
|                  |                                               | C      | Sound Kit #2                       |
|                  |                                               | D      | Sound Kit #3                       |
|                  |                                               | Q      | Special Quote                      |
| <b>ISOL</b>      | Vibration Isolation<br>(PIN 79)               | X      | No Selection                       |
|                  |                                               | E      | Elastomeric pad                    |
|                  |                                               | 1      | 1 in Deflection Spring Isolation   |
|                  |                                               | Q      | Special Quote                      |
| <b>PAINT</b>     | Paint Options<br>(PIN 80)                     | S      | Caribbean Blue                     |
|                  |                                               | Q      | Special Quote                      |
| <b>STRMOD</b>    | Structural Modification<br>(PIN 81)           | X      | Standard Unit                      |
|                  |                                               | Q      | Special Quote                      |
| <b>PIN 82</b>    | PIN 82                                        | X      | No Selection                       |
|                  |                                               | Q      | Special Quote                      |

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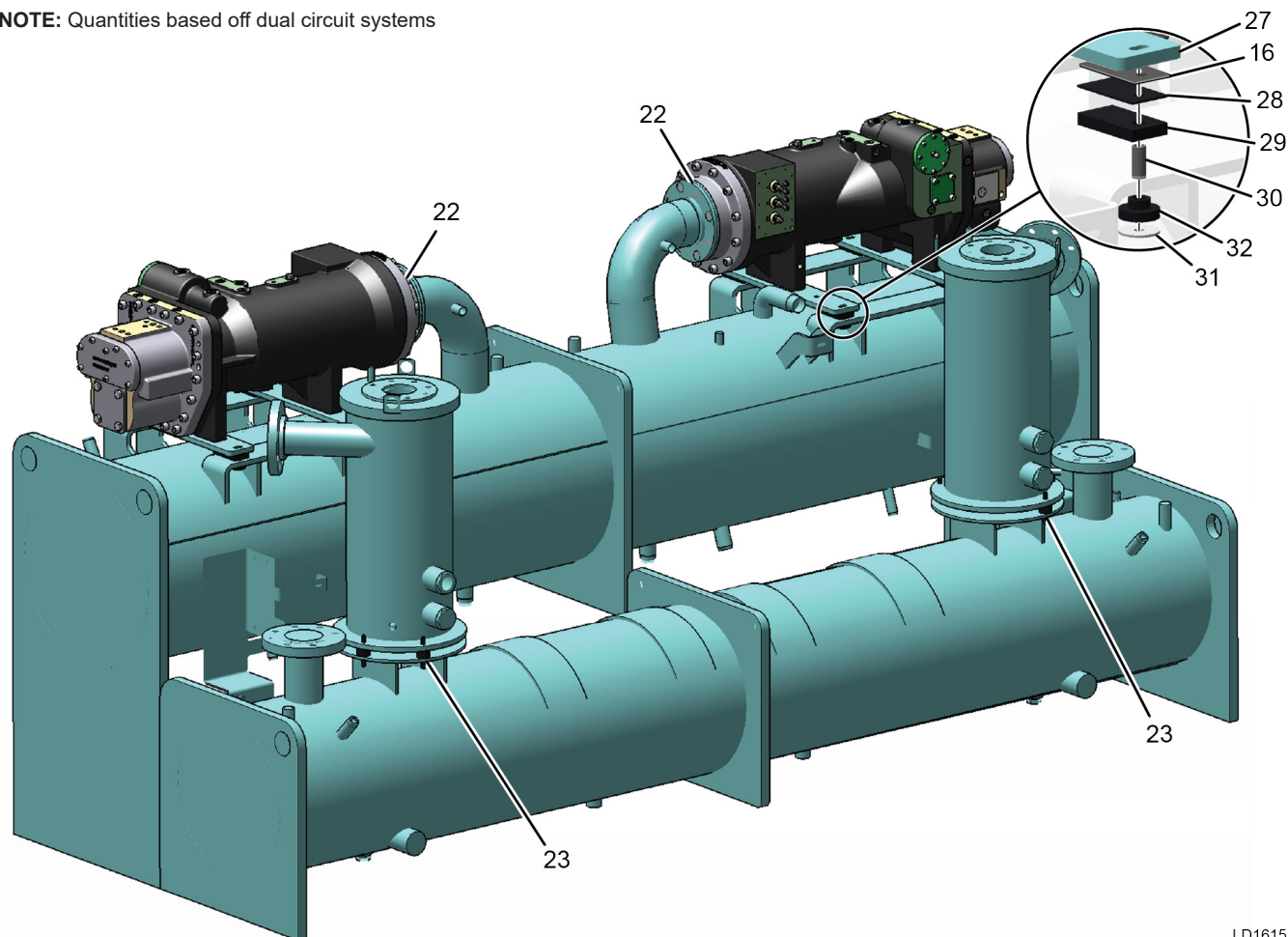
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**TABLE 1 - UNIT COMPONENTS**

| ITEM | DESCRIPTION                                  | YORK PART NUMBER | SAP PART NUMBER | QUANTITY | FIGURE |
|------|----------------------------------------------|------------------|-----------------|----------|--------|
| 16   | Adjustable Shim Assembly                     | 392-02243-000    | 701910          | 4        | 1      |
|      | Adjust Shim 105T55 T=0.6                     | 092-02242-001    | 709749          | 4        |        |
|      | Adjust Shim 105T55 T=1.0                     | 092-02242-002    | 709753          | 4        |        |
|      | Adjust Shim 105T55 T=1.5                     | 092-02242-003    | 709754          | 4        |        |
|      | Adjust Shim 105T55 T=3.2                     | 092-02242-004    | 709755          | 4        |        |
| 22   | Gasket, Ansi 5-150#                          | 028-15075-211    | 710159          | 2        | 1      |
| 23   | Isolator, 1-1/2" Dia X 1" Lg (Prior to 5/12) | 028-09239-001    | 741531          | 8        | 1      |
| 27   | Support, Compressor (Prior to 5/12)          | 028-16655-000    | 836142          | 8        | 1      |
| 28   | Shim, Adjustment                             | 028-16361-000    | 742204          | 8        | 1      |
| 29   | Front, Rubber Cushion                        | 028-16362-000    | 742205          | 8        | 1      |
| 30   | Limit, Steel Tube                            | 092-06560-000    | 836143          | 8        | 1      |
| 31   | Washer                                       | 028-16359-000    | 742202          | 8        | 1      |
| 32   | Bottom Rubber Cushion                        | 028-16360-000    | 742203          | 8        | 1      |
| 41   | Shim Assembly, Support (After 5/12)          | 392-10617-000    | 862491          | 8        | 1      |
| 42   | Shim, Support (After 5/12)                   | 092-10611-000    | 862309          | 16       | 1      |
| 43   | Rubber Cushion, Support (After 5/12)         | 028-16693-000    | 862304          | 8        | 1      |
| 44   | Limit, Steel Tube Support (After 5/12)       | 092-10618-000    | 862310          | 8        | 1      |

**NOTE:** Quantities based off dual circuit systems



LD16153

**FIGURE 1 - UNIT COMPONENTS**

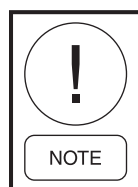


**TABLE 2 - OIL SEPARATOR**

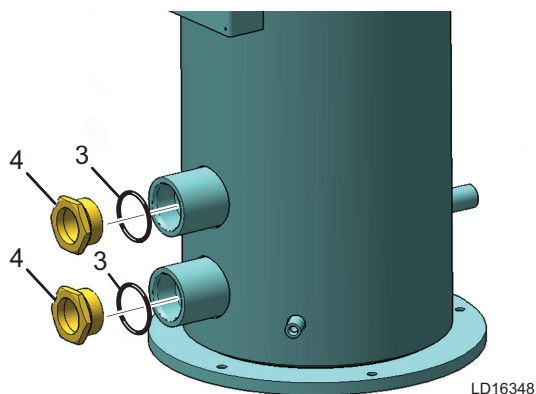
| ITEM                                                                               | DESCRIPTION                      | YORK PART NUMBER | SAP PART NUMBER | QUANTITY | FIGURE |
|------------------------------------------------------------------------------------|----------------------------------|------------------|-----------------|----------|--------|
| SINGLE COMPRESSOR, PIN 50 A = ASME, PIN 77 L = LOW PRESSURE                        |                                  |                  |                 |          |        |
| -                                                                                  | OIL SEPARATOR (ASME)             | 392-10609-000    | 1039292         | 1        | 2      |
| 3                                                                                  | O-Ring, Neo1, 2.09"ID, 0.118"THK | 028-12961-036    | 618660          | 2        |        |
| 4                                                                                  | Plug, Sight 2-1/4"-12 UN-2A      | 023-17197-000    | 146345          | 2        |        |
| SINGLE COMPRESSOR, PIN 50 A = ASME, PIN 77 H = HIGH PRESSURE                       |                                  |                  |                 |          |        |
| -                                                                                  | OIL SEPARATOR (ASME)             | 392-06492-000    | 901793          | 1        | 2      |
| 3                                                                                  | O-Ring, Neo1, 2.09"ID, 0.118"THK | 028-12961-036    | 618660          | 2        |        |
| 4                                                                                  | Plug, Sight 2-1/4"-12 UN-2A      | 023-17197-000    | 146345          | 2        |        |
| SINGLE COMPRESSOR, PIN 50 E = PED, PIN 77 L = LOW PRESSURE                         |                                  |                  |                 |          |        |
| -                                                                                  | OIL SEPARATOR (ASME)             | 392-10609-900    | 1065018         | 1        | 2      |
| 3                                                                                  | O-Ring, Neo1, 2.09"ID, 0.118"THK | 028-12961-036    | 618660          | 2        |        |
| 4                                                                                  | Plug, Sight 2-1/4"-12 UN-2A      | 023-17197-000    | 146345          | 2        |        |
| SINGLE COMPRESSOR, PIN 50 E = PED, PIN 77 H = HIGH PRESSURE                        |                                  |                  |                 |          |        |
| -                                                                                  | OIL SEPARATOR (ASME)             | 392-06492-900    | 1040753         | 1        | 2      |
| 3                                                                                  | O-Ring, Neo1, 2.09"ID, 0.118"THK | 028-12961-036    | 618660          | 2        |        |
| 4                                                                                  | Plug, Sight 2-1/4"-12 UN-2A      | 023-17197-000    | 146345          | 2        |        |
| DUAL COMPRESSOR, PIN 50 G = GB                                                     |                                  |                  |                 |          |        |
| -                                                                                  | OIL SEPARATOR (GB)               | 392-11978-800    | 995108          | 1        | 2      |
| 3                                                                                  | O-Ring, Neo1, 2.09"ID, 0.118"THK | 028-12961-036    | 618660          | 2        |        |
| 4                                                                                  | Plug, Sight 2-1/4"-12 UN-2A      | 023-24910-000    | 733995          | 2        |        |
| -                                                                                  | OIL SEPARATOR (GB)               | 392-11985-800    | 995198          | 1        |        |
| 3                                                                                  | O-Ring, Neo1, 2.09"ID, 0.118"THK | 028-12961-036    | 618660          | 2        |        |
| 4                                                                                  | Plug, Sight 2-1/4"-12 UN-2A      | 023-17197-000    | 146345          | 2        |        |
| DUAL COMPRESSOR, PIN 50 A = ASME, PIN 77 L = LOW PRESSURE                          |                                  |                  |                 |          |        |
| -                                                                                  | OIL SEPARATOR (ASME)             | 392-11978-000    | 1129371         | 1        | 2      |
| 3                                                                                  | O-Ring, Neo1, 2.09"ID, 0.118"THK | 028-12961-036    | 618660          | 2        |        |
| 4                                                                                  | Plug, Sight 2-1/4"-12 UN-2A      | 023-17197-000    | 146345          | 2        |        |
| -                                                                                  | OIL SEPARATOR (ASME)             | 392-11985-000    | 1129363         | 1        |        |
| 3                                                                                  | O-Ring, Neo1, 2.09"ID, 0.118"THK | 028-12961-036    | 618660          | 2        |        |
| 4                                                                                  | Plug, Sight 2-1/4"-12 UN-2A      | 023-17197-000    | 146345          | 2        |        |
| DUAL COMPRESSOR, PIN 50 A = ASME, PIN 77 M OR H = MEDIUM PRESSURE OR HIGH PRESSURE |                                  |                  |                 |          |        |
| -                                                                                  | OIL SEPARATOR (ASME)             | 392-21390-000    | 1171880         | 1        | 2      |
| 3                                                                                  | O-Ring, Neo1, 2.09"ID, 0.118"THK | 028-12961-036    | 618660          | 2        |        |
| 4                                                                                  | Plug, Sight 2-1/4"-12 UN-2A      | 023-17197-000    | 146345          | 2        |        |
| -                                                                                  | OIL SEPARATOR (ASME)             | 392-21391-000    | 1171882         | 1        |        |
| 3                                                                                  | O-Ring, Neo1, 2.09"ID, 0.118"THK | 028-12961-036    | 618660          | 2        |        |
| 4                                                                                  | Plug, Sight 2-1/4"-12 UN-2A      | 023-17197-000    | 146345          | 2        |        |
| DUAL COMPRESSOR, PIN 50 E = PED, PIN 77 L = LOW PRESSURE                           |                                  |                  |                 |          |        |
| -                                                                                  | OIL SEPARATOR (PED)              | 392-11978-900    | 1171856         | 1        | 2      |
| 3                                                                                  | O-Ring, Neo1, 2.09"ID, 0.118"THK | 028-12961-036    | 618660          | 2        |        |
| 4                                                                                  | Plug, Sight 2-1/4"-12 UN-2A      | 023-17197-000    | 617564          | 2        |        |
| -                                                                                  | OIL SEPARATOR (PED)              | 392-11985-900    | 1171857         | 1        |        |
| 3                                                                                  | O-Ring, Neo1, 2.09"ID, 0.118"THK | 028-12961-036    | 618660          | 2        |        |
| 4                                                                                  | Plug, Sight 2-1/4"-12 UN-2A      | 023-17197-000    | 617564          | 2        |        |

**TABLE 2 (CONT'D) - OIL SEPARATOR**

| ITEM                                                                                     | DESCRIPTION                      | YORK PART NUMBER | SAP PART NUMBER | QUANTITY | FIGURE |
|------------------------------------------------------------------------------------------|----------------------------------|------------------|-----------------|----------|--------|
| <b>DUAL COMPRESSOR, PIN 50 E = PED, PIN 77 M OR H = MEDIUM PRESSURE OR HIGH PRESSURE</b> |                                  |                  |                 |          |        |
| -                                                                                        | OIL SEPARATOR ( <b>PED</b> )     | 392-21390-900    | 1171881         | 1        | 2      |
| 3                                                                                        | O-Ring, Neo1, 2.09"ID, 0.118"THK | 028-12961-036    | 618660          | 2        |        |
| 4                                                                                        | Plug, Sight 2-1/4"-12 UN-2A      | 023-17197-000    | 617564          | 2        |        |
| -                                                                                        | OIL SEPARATOR ( <b>PED</b> )     | 392-21391-900    | 1171883         | 1        |        |
| 3                                                                                        | O-Ring, Neo1, 2.09"ID, 0.118"THK | 028-12961-036    | 618660          | 2        |        |
| 4                                                                                        | Plug, Sight 2-1/4"-12 UN-2A      | 023-17197-000    | 617564          | 2        |        |



*Refer to the Oil Separator Nameplate to identify which Oil Separator the unit is equipped with.*

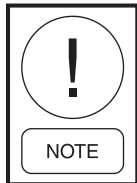


**FIGURE 2 - OIL SEPARATOR**

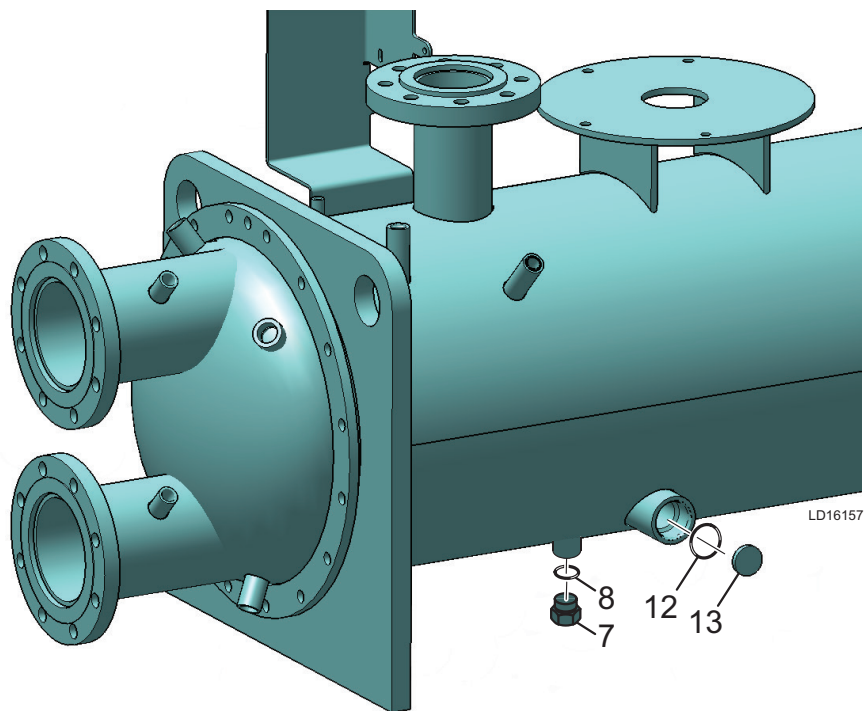
**TABLE 3 - CONDENSER**

| ITEM | DESCRIPTION                           | YORK PART NUMBER | SAP PART NUMBER | QUANTITY | FIGURE |
|------|---------------------------------------|------------------|-----------------|----------|--------|
| 7    | Plug, Hex Head 1-5/16" (ASME/PED)     | 023-18282-000    | 146271          | 2        | 3      |
|      | Plug, Threaded 1-5/16"-12UN-2A (GB)   | 023-25252-000    | 734179          |          |        |
| 8    | O-Ring, Neo1, 1.171"ID, 0.116"THK     | 028-12961-008    | 588822          | 2        | 3      |
| 12   | O-Ring, Neo1, 2.09"ID, 0.118"THK      | 028-12961-036    | 618660          | 2        | 3      |
| 13   | Plug, Sight 2-1/4"-12UN-2A (ASME/PED) | 023-17197-000    | 146345          | 2        | 3      |
|      | Plug, Sight 2-1/4"-12UN-2A (GB)       | 023-24910-000    | 733995          |          |        |

**Note:** Quantities based off dual circuit systems



*Refer to PIN 50 to identify which vessel the unit is equipped with.*



**FIGURE 3 - CONDENSER**

**TABLE 4 - EVAPORATOR**

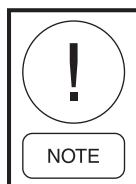
| ITEM  | DESCRIPTION                                   | YORK PART NUMBER | SAP PART NUMBER | QUANTITY | FIGURE |
|-------|-----------------------------------------------|------------------|-----------------|----------|--------|
| 18    | O-Ring, Neo1, 2.09"ID, 0.118"THK              | 028-12961-036    | 618660          | 2        | 4      |
| 19    | Plug, Sight 2-1/4"-12UN-2A (ASME/PED)         | 023-17197-000    | 146345          | 2        | 4      |
|       | Plug, Sight 2-1/4"-12UN-2A (GB)               | 023-24910-000    | 733995          | 2        |        |
| 22**  | O-Ring, Neo1, 0.924"ID, 0.116THK M (ASME/PED) | 028-12961-006    | 588821          | 1        | *      |
| 23**  | Plug, Hex Head 1-1/16" (ASME/PED)             | 023-18295-000    | 146284          | 1        | *      |
| 26*** | O-Ring, Neo, 1.17"ID, 0.116"THK (GB)          | 028-12961-008    | 588822          | 2        | 4      |
|       | O-Ring, Neo1, 0.924"ID, 0.116THK M (ASME/PED) | 028-12961-006    | 588821          | 2        |        |
| 27*** | Plug, Threaded 1-5/16"-12UN (GB)              | 023-25252-000    | 734179          | 2        | 4      |
|       | Plug, Hex Head 1-1/16" (ASME/PED)             | 023-18295-000    | 146284          | 2        |        |

**NOTE:** Quantities based off dual circuit systems

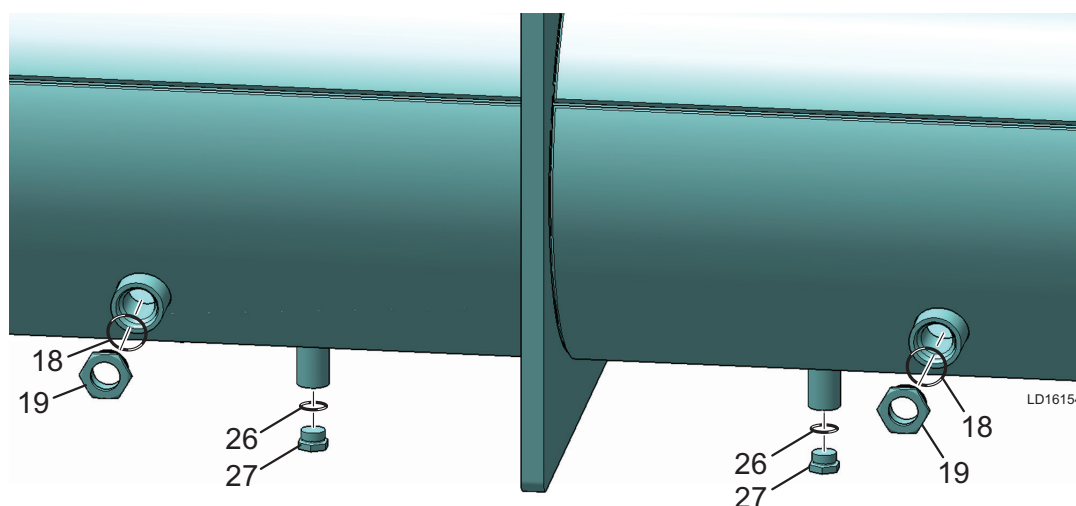
\* Item not illustrated

\*\* Applies to single circuit only

\*\*\* Applies to dual circuit only



*Refer to PIN 50 to identify which vessel the unit is equipped with.*



**FIGURE 4 - EVAPORATOR**

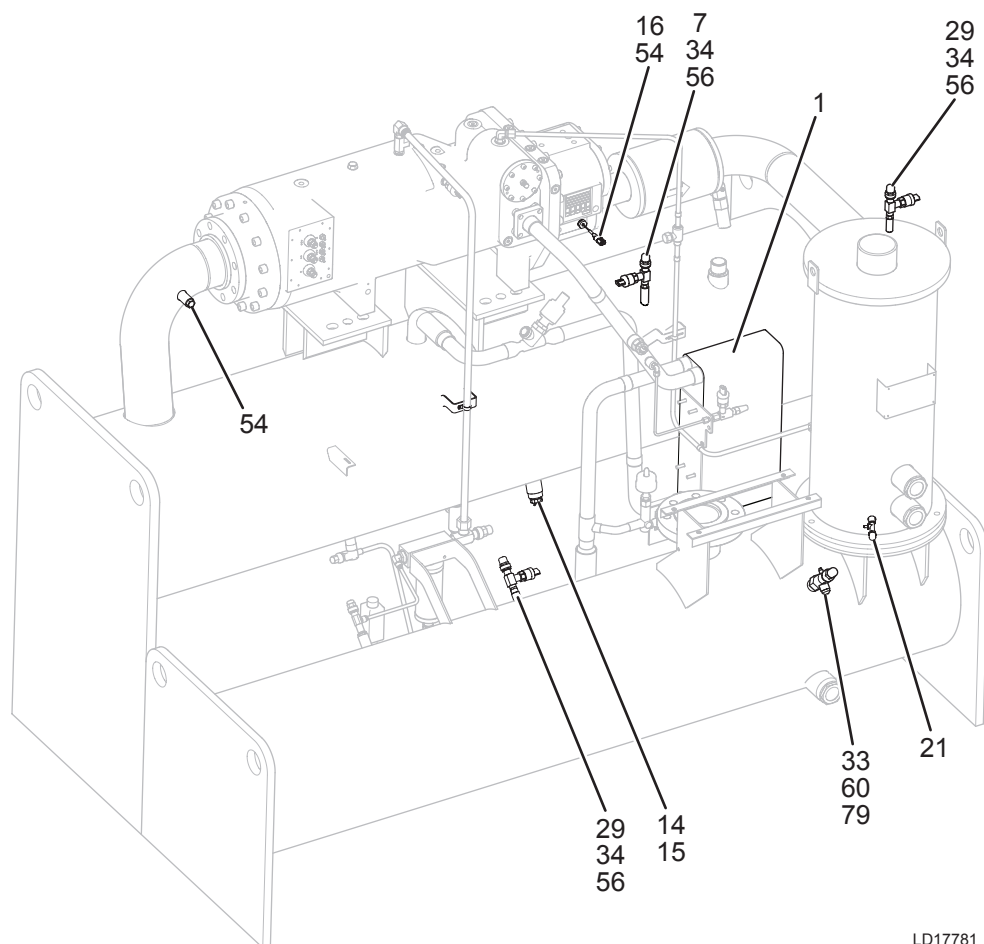
**TABLE 5 - UNIT PIPING FOR SINGLE SYSTEM**

| ITEM | DESCRIPTION                                                   | PART NUMBER   | SAP     | QUANTITY | FIGURE |
|------|---------------------------------------------------------------|---------------|---------|----------|--------|
| 1    | PLATE HEAT EXCHANGER ASSY WTS145 (FX)                         | 392-06489-000 | 719429  | 1        | 5,7    |
|      | Valve, R-410a OD 22.23mm / 7/8" Brazed                        | 025-45331-001 | 844373  | 1        |        |
| 1    | PLATE HEAT EXCHANGER ASSY WTS145 HP (FX LIQUID INJECTION KIT) | 392-06489-001 | 1042790 | 1        | 5,7    |
|      | Valve, R-410a OD 22.23mm / 7/8" Brazed                        | 025-45331-001 | 844373  | 1        |        |
| 1    | PHE ASSY WTS151 HP (GX LIQUID INJECTION KIT)                  | 392-06543-001 | 1042791 | 1        | 5,7    |
|      | Valve, R-410a OD 22.23mm / 7/8" Brazed                        | 025-45331-001 | 844373  | 1        |        |
|      | Valve, Solenoid 3/8" ODF Conn                                 | 025-42198-000 | 435830  | 1        |        |
| 1    | PHE ASSY WTS151 (GX)                                          | 392-06543-002 | 1082274 | 1        | 5,7    |
|      | Valve, R-410a OD 22.23mm / 7/8" Brazed                        | 025-45331-001 | 844373  | 1        |        |
| 2    | Liquid Level Transmitter Assy                                 | 392-02714-001 | 689851  | 1        | 6      |
| 3    | Sensor, Refrigerant Level (R-134a)                            | 325-44846-001 | 1150611 | 1        | 6      |
|      | Sensor, Refrigerant Level (R-513A)                            | 325-44846-002 | 5285105 | 1        | 6      |
| 4    | Oil Eductor                                                   | 026-45399-000 | 741220  | 1        | 7      |
| 5    | Filter, Drier 1"-14UN-2A                                      | 026-32839-000 | 1477    | 1        | 7      |
| 6    | Valve, Stop Angle Vertical                                    | 022-10047-000 | 617115  | 1        | 7      |
| 7    | Transducer, 0-125 PSI                                         | 025-29583-001 | 128531  | 1        | 5      |
| 11   | Valve, R-410a OD 41.27mm / 1-5/8" Brazed                      | 025-45331-003 | 844375  | 1        | 7      |
| 13   | Valve, Ball 1-1/16"-12UN-2A                                   | 022-09757-000 | 62507   | 2        | 6      |
| 14   | O-Ring, Neo1, 0.924"ID 0.116"THK M                            | 028-12961-006 | 588821  | 6        | 5,6,7  |
| 15   | Sensor, Temperature 3000 Ohms                                 | 025-39517-000 | 118035  | 3        | 5,6,7  |
| 16   | Sensor, Temperature Dxs Screw                                 | 025-32924-000 | 738772  | 1        | 5      |
| 17   | Plate                                                         | 075-92632-000 | 761189  | 1        | 7      |
| 18   | Connector                                                     | 075-92633-000 | 761190  | 1        | 7      |
| 19   | Valve, Stop Angle Vertical                                    | 022-10054-000 | 617117  | 1        | 7      |
| 20   | Valve, Stop Angle Horizontal                                  | 022-09756-000 | 731279  | 1        | 7      |
| 21   | Valve, Stop Angle 1/4" NPTE                                   | 022-00009-000 | 257712  | 1        | 5      |
| 22   | Elbow, 3/8"OD Tube 90 Deg Male                                | 023-18981-000 | 146247  | 3        | 7      |
| 23   | Adapter, Straight 1"-14UN-2B                                  | 023-19030-000 | 146209  | 1        | 7      |
| 24   | Valve, Ang Sc Stop Needle 1/4"                                | 025-45607-000 | 61253   | 1        | 7      |
| 25   | Transducer, 0-275 PSI                                         | 025-29139-003 | 251762  | 1        | 7      |
| 26   | Fitting, Female Bulkhead 1/4"ODT Swagelok                     | 023-25495-000 | 734229  | 1        | 7      |
| 27   | Elbow, 1/4"OD Tube 90 Deg T Thd                               | 025-45606-000 | 113858  | 1        | 7      |
| 28   | Adapter, M X F 3/4"-16UNF                                     | 023-18225-000 | 146300  | 1        | 6      |
| 29   | Transducer, 0-400 PSI, 5v Input                               | 025-29139-001 | 738264  | 3        | 5,6    |
| 30   | Elbow, 3/4"OD Tube 90 Deg Male                                | 023-21937-000 | 146081  | 1        | 7      |
| 31   | Elbow, 1/2" ODTube 90 Deg Male                                | 023-18982-000 | 146248  | 2        | 7      |
| 32   | Valve, Ball 1/2" OD (C X C)                                   | 022-09172-000 | 731238  | 1        | 7      |
| 33   | Valve, Stop Angle Vertical                                    | 022-09573-000 | 617077  | 2        | 5,6,7  |
| 34   | Valve, Stop Angle Vertical                                    | 022-11858-000 | 540201  | 3        | 5      |
| 37   | O-Ring 2-139 DXS Screw                                        | 028-13963-000 | 741865  | 1        | 7      |
| 45   | Transducer Tube                                               | 092-17144-000 | 1056934 | 1        | 6      |
| 46   | Transducer Tube                                               | 092-17145-000 | 1056935 | 1        | 6      |
| 47   | Sleeve, 3/4" OD Tube                                          | 023-18284-000 | 146273  | 2        | 7      |
| 48   | Nut, 3/4" OD Tube                                             | 023-18286-000 | 146275  | 2        | 7      |

**TABLE 5 (CONT'D) - UNIT PIPING FOR SINGLE SYSTEM**

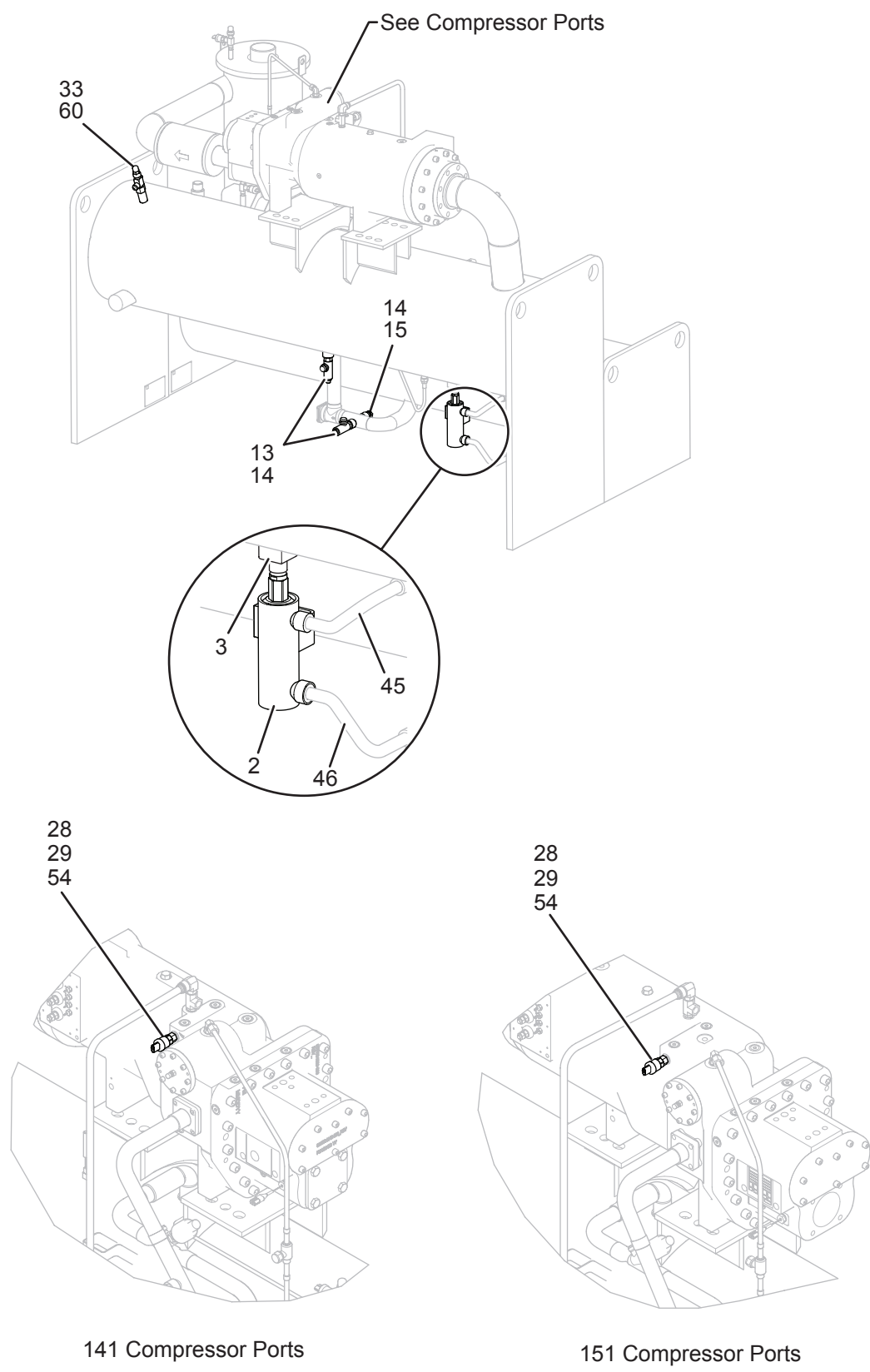
| ITEM | DESCRIPTION                                         | PART NUMBER   | SAP     | QUANTITY | FIGURE |
|------|-----------------------------------------------------|---------------|---------|----------|--------|
| 49   | O-Ring, Neo1, 0.739"ID 0.070"THK M                  | 028-12961-015 | 618651  | 2        | 7      |
| 50   | Seal, Teflon Fiber 3/4" OD                          | 028-12709-000 | 618637  | 3        | 7      |
| 51   | Nut, 3/8" OD Tube                                   | 023-18977-000 | 146243  | 7        | 7      |
| 52   | Sleeve, 3/8" OD Tube                                | 023-18978-000 | 146244  | 7        | 7      |
| 53   | O-Ring, Neo1, 0.364"ID 0.070"THK M                  | 028-12961-012 | 618648  | 7        | 7      |
| 54   | O-Ring, Neo1, 0.644"ID 0.087"THK M                  | 028-12961-004 | 588819  | 11       | 5,6,7  |
| 55   | O-Ring, Neo1, 0.468"ID 0.078"THK M                  | 028-12961-003 | 588818  | 1        | 7      |
| 56   | O-Ring, Neo1, 0.468"ID 0.078"THK M                  | 028-12961-001 | 588817  | 4        | 5,7    |
| 57   | Nut, 1/2" OD Tube                                   | 023-18984-000 | 146250  | 2        | 7      |
| 58   | Sleeve, 1/2" OD Tube                                | 023-18985-000 | 146251  | 2        | 7      |
| 59   | O-Ring, Neo1, 0.489"ID 0.070"THK M                  | 028-12961-013 | 618649  | 2        | 7      |
| 60   | Gasket, Seal 1" OD X 7/8" ID                        | 028-04836-000 | 62960   | 2        | 5,6    |
| 66   | Plug, Threaded 3/4"-16UNF-2A (Pin 40=X)             | 023-25226-000 | 734168  | 1        | *      |
|      | Connector, 3/8"OD Tube Male (Pin 40=L)              | 023-18992-000 | 146252  | 1        |        |
| 67   | Sensor, Temperature 3000 Ohms At 25                 | 025-28935-000 | 738242  | 1        | 7      |
| 79   | Gasket, Flange 3/4" OD Tube                         | 028-09211-000 | 618602  | 4        | 5      |
| 81   | Solenoid Valve, Parker (Pin 40=L)                   | 025-46328-000 | 1053246 | 1        | *      |
| 82   | Special Adapter / Connector 1.125" (Pin 40=L)       | 023-25578-000 | 844372  | 1        | *      |
| 88   | Tee Assy (Pin 40=L)                                 | 392-16564-000 | 1042792 | 1        | 7      |
| 95   | Plug, Threaded 3/4"-16UNF-2A                        | 023-25226-000 | 734168  | 1        | 7      |
| 96   | Steel Bushing For Form 7 (Pin 84=7)                 | 092-06453-000 | 851993  | 1        | *      |
| 98   | Gasket, Round ANSI 1.50-150# (Pin 84=7)             | 028-15075-005 | 741974  | 1        | *      |
| 104  | Union, 3/8" ORFS-ORFS<br>(Pin 40=S Or V & Pin 84=7) | 023-20258-000 | 278990  | 1        | *      |

**NOTE:** Items with an \* are NOT represented.



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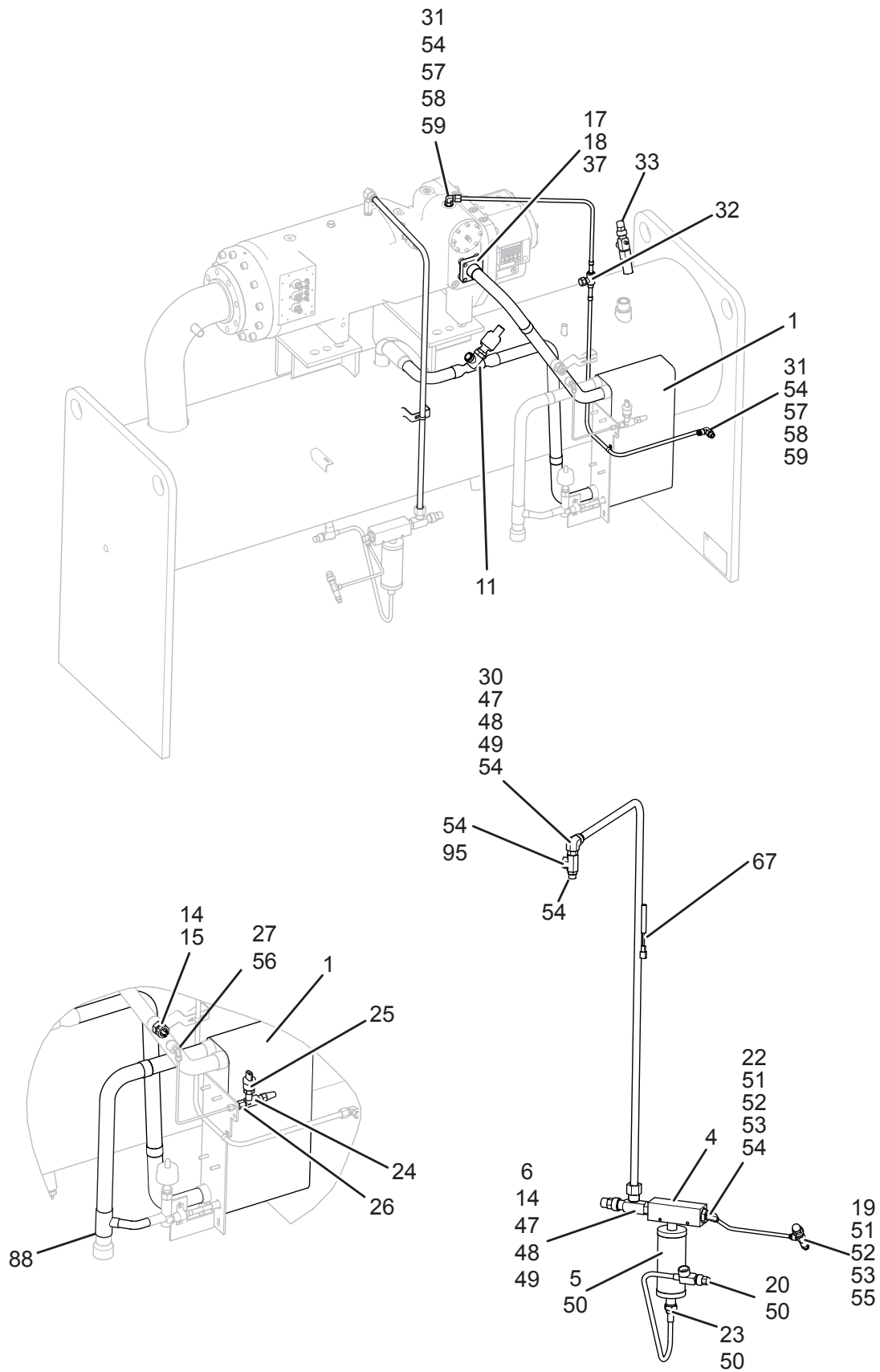
**FIGURE 5 - UNIT PIPING FOR SINGLE SYSTEM**



LD17782

**FIGURE 6 - UNIT PIPING FOR SINGLE SYSTEM**





**FIGURE 7 - UNIT PIPING FOR SINGLE SYSTEM**

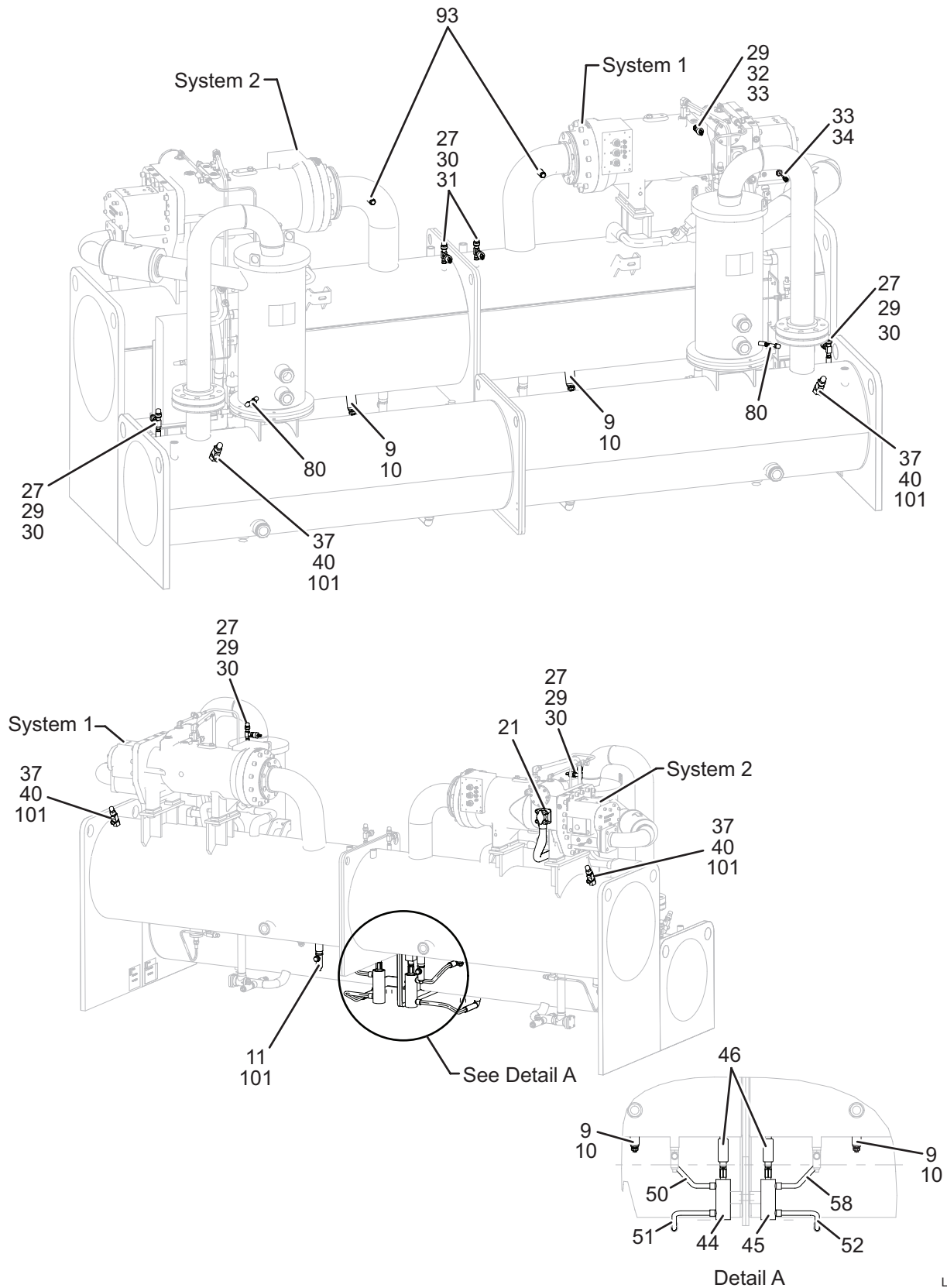
**TABLE 6 - UNIT PIPING FOR DUAL SYSTEMS**

| ITEM | DESCRIPTION                               | YORK PART NUMBER | SAP PART NUMBER | QUANTITY | FIGURE |
|------|-------------------------------------------|------------------|-----------------|----------|--------|
| 6    | PHE ASSY SYSTEM1 CTS136 / WTS136          | -                | -               | -        | 12     |
| 6a   | Plate Heat Exchanger, P80x64 Swep         | 026-46822-000    | 689246          | 1        | 11     |
| 6d   | Valve, R-410a OD 22.23mm / 7/8in Brazed   | 025-45331-001    | 844373          | 1        | 11     |
| 6    | PHE ASSY SYSTEM1 CTS145 / WTS145          | -                | -               | -        | 10     |
| 6a   | Plate Heat Exchanger, P80x80 Swep         | 026-46180-000    | 709193          | 1        | 11     |
| 6d   | Valve, R-410a OD 22.23mm / 7/8in Brazed   | 025-45331-001    | 844373          | 1        | 11     |
| 7    | PHE ASSY SYSTEM2 CTS136 / WTS136          | -                | -               | -        | 11,12  |
| 7a   | Plate Heat Exchanger, P80x64 Swep         | 026-46186-000    | 741308          | 1        | 11     |
| 7    | PHE ASSY SYSTEM2 CTS145 / WTS145          | -                | -               | -        | 10,11  |
| 7a   | Plate Heat Exchanger, P80x80 Swep         | 026-46821-000    | 689245          | 1        | 11     |
| 7d   | Valve, R-410a OD 22.23mm / 7/8in Brazed   | 025-45331-001    | 844373          | 1        | 11     |
| 9    | Sensor, Temperature, 3000 Ohms            | 025-39517-000    | 118035          | 6        | 8      |
| 10   | O-Ring, Neo1 0.924"ID 0.116"THK           | 028-12961-006    | 588821          | 12       | 8      |
| 11   | Valve, Ball 1-1/16 - 12 Un-2a             | 022-09757-000    | 62507           | 4        | 8      |
| 12   | O-Ring, Neo1 0.468"ID 0.078"THK           | 028-12961-003    | 588818          | 2        | 9      |
| 17   | Valve, R-410a OD 41.27mm / 1-5/8in Brazed | 025-45331-003    | 844375          | 2        | 9      |
| 21   | Valve, Angle Compr                        | 022-11358-000    | 731384          | 1        | 8      |
| 24   | O-Ring, 2-139                             | 028-13963-000    | 741865          | 2        | 9      |
| 27   | Valve, Stop Angle Vertical                | 022-11858-000    | 540201          | 6        | 8      |
| 28   | Transducer, 0-275 PSI                     | 025-29139-003    | 251762          | 2        | 9      |
| 29   | Transducer, 0-400 PSI, 5v Input           | 025-29139-001    | 738264          | 6        | 8      |
| 30   | O-Ring, Neo1 0.351"ID 0.072"THK           | 028-12961-001    | 588817          | 8        | 8      |
| 31   | Transducer, 0-125 PSI                     | 025-29583-001    | 128531          | 2        | 8      |
| 32   | Adapter, M X F 3/4"-16UNF                 | 023-18225-000    | 146300          | 2        | 8      |
| 33   | O-Ring, Neo1 0.644"ID 0.087"THK           | 028-12961-004    | 588819          | 22       | 8,9    |
| 34   | Sensor, Temperature                       | 025-32924-000    | 738772          | 2        | 8      |
| 36   | Sensor, Temperature, 3000 Ohms            | 025-28935-000    | 738242          | 2        | 9      |
| 37   | Valve, Stop Angle Vertical                | 022-09573-000    | 617077          | 4        | 8      |
| 39   | Insulator, Thermal 7/8" ID X 1/2"         | 010-03828-000    | 728799          | 1        | 9      |
| 40   | Gasket, Seal 1" OD X 7/8" ID              | 028-04836-000    | 62960           | 4        | 8      |
| 43   | Eco Main Inlet Pipe Yvwa                  | 092-06478-000    | 769096          | 2.000    | 9      |
| 44   | Liquid Level Transmitter Assy             | 392-02714-002    | 703798          | 1        | 8      |
| 45   | Liquid Level Transmitter Assy             | 392-02714-001    | 689851          | 1        | 8      |
| 46   | Sensor, Refrigerant Level (R-134a)        | 325-44846-001    | 1150611         | 2        | 8      |
|      | Sensor, Refrigerant Level (R-513A)        | 325-44846-002    | 5285105         | 2        | 8      |
| 47   | Valve, Stop Angle Vertical                | 022-10047-000    | 617115          | 2        | 9      |
| 49   | O-Ring, Neo1 0.739"ID 0.070"THK           | 028-12961-015    | 618651          | 4        | 9      |
| 50   | Liquid Level Sensor, System 2 Top Tube    | 092-16953-000    | 1056932         | 1        | 8      |
| 51   | Liquid Level Sensor, System 2 Bottom Tube | 092-16955-000    | 1056933         | 1        | 8      |
| 52   | Liquid Level Sensor, System 1 Bottom Tube | 092-16952-000    | 1056931         | 1        | 8      |
| 54   | Valve, Stop Angle Vertical                | 022-10054-000    | 617117          | 2        | 9      |
| 55   | O-Ring, Neo1 0.364"ID 0.070"THK           | 028-12961-012    | 618648          | 14       | 9      |
| 58   | Liquid Level Sensor, System 1 Top Tube    | 092-16951-000    | 1056800         | 1        | 8      |
| 60   | Elbow 1/4Odt 90 Deg T Thd                 | 025-45606-000    | 113858          | 2.000    | 9      |

**TABLE 6 (CONT'D) - UNIT PIPING FOR DUAL SYSTEMS**

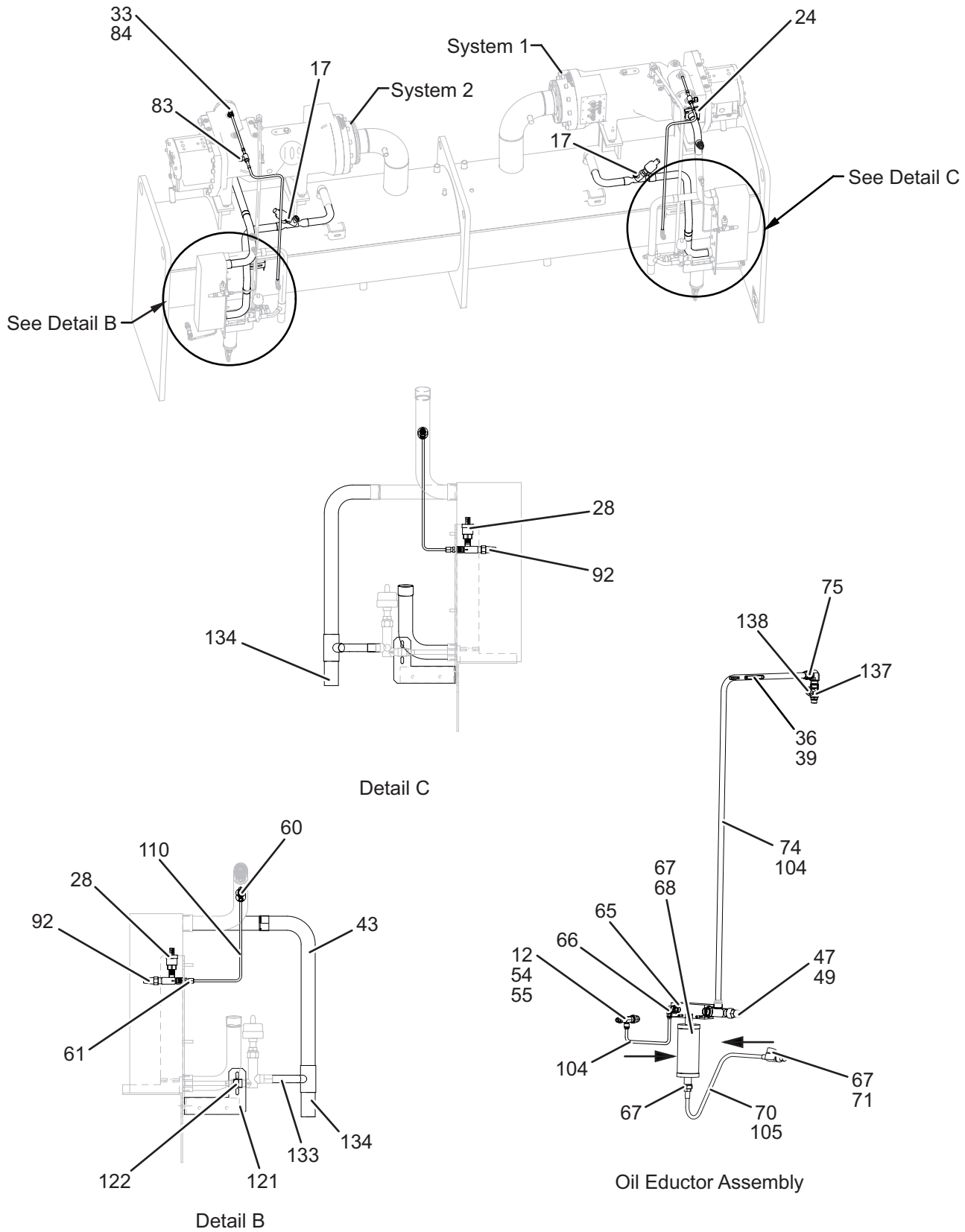
| ITEM | DESCRIPTION                              | YORK PART NUMBER | SAP PART NUMBER | QUANTITY | FIGURE |
|------|------------------------------------------|------------------|-----------------|----------|--------|
| 61   | Ftg Fem Bulkhd 1/4Odt Swagelok           | 023-25495-000    | 734229          | 2.000    | 9      |
| 65   | Oil, Eductor                             | 026-45399-000    | 741220          | 2        | 9      |
| 66   | Elbow 3/8 O.d.tube 90 Deg Male           | 023-18981-000    | 146247          | 6        | 9      |
| 67   | Seal, Teflon Fiber 3/4" OD               | 028-12709-000    | 618637          | 6        | 9      |
| 68   | Filter, Drier 1"-14UN-2A                 | 026-32839-000    | 1477            | 2        | 9      |
| 70   | 1/2" Eductor Return Pipe Sys-1           | 092-02735-000    | 817029          | 1        | 9      |
| 71   | Valve, Stop Angle Horizontal             | 022-09756-000    | 731279          | 2        | 9      |
| 74   | 3/4" Eductor Return Pipe Sys-1           | 092-02745-000    | 817027          | 1        | 9      |
| 75   | Elbow 3/4 O.d.tube 90 Deg Male           | 023-21937-000    | 146081          | 2        | 9      |
| 80   | Valve, Stop Ang 1/4 Npte                 | 022-00009-000    | 257712          | 2        | 8      |
| 83   | Valve, Ball 1/2 Od (C X C)               | 022-09172-000    | 731238          | 2        | 9      |
| 84   | O-Ring, Neo1 0.489"Id 0.070"Thk          | 028-12961-013    | 618649          | 4        | 9      |
| 92   | Valve, Ang Sc Stop Needle 1/4            | 025-45607-000    | 61253           | 2        | 9      |
| 93   | Plug, Threaded 3/4"-16Unf-2A (Pin 40=X)  | 023-25226-000    | 734168          | 2        | 8      |
| 96   | Solenoid, Valve                          | 025-46328-000    | 1053246         | 2        | 11     |
| 101  | Gasket, Flange 3/4" Od Tube              | 028-09211-000    | 618602          | 8        | 8      |
| 104  | 1/2" Eductor Inlet Pipe Sys-1            | 092-02734-000    | 817031          | 2        | 9      |
| 105  | 1/2" Eductor Return Pipe Sys-2           | 092-02701-000    | 817028          | 1        | 9      |
| 110  | 1/4" Temp Sensor Pipe Sys-2              | 092-02755-000    | 817032          | 1        | 9      |
| 115  | Gasket, Round Ansi 1.50-150#             | 028-15075-005    | 741974          | 3        | 12     |
| 121  | Support Plate For Eev Sys2 Yvwa          | 092-10695-000    | 1042531         | 1        | 9      |
| 122  | Clamp Tube 7/8 Id                        | 075-50979-078    | 518760          | 2        | 9      |
| 129  | Valve, Solenoid 3/8" Odf Conn            | 025-42198-000    | 435830          | 2        | 10     |
| 133  | Eco Minor Inlet Pipe Yvwa                | 092-10698-000    | 1042534         | 2        | 9      |
| 134  | Kit, Connect Pipe                        | 392-16950-000    | 1046105         | 2        | 9      |
| 137  | Tee Unf(F) 0.750In Unf(F) 0.750In Unf(M) | 023-25549-000    | 827494          | 2        | 9      |
| 138  | Plug Threaded 3/4-16Unf-2A               | 023-25226-000    | 734168          | 2        | 9      |

**NOTE:** Before installing item 130 & 131, Need to remove nuts and washers from the PHE kit, then reinstall them.



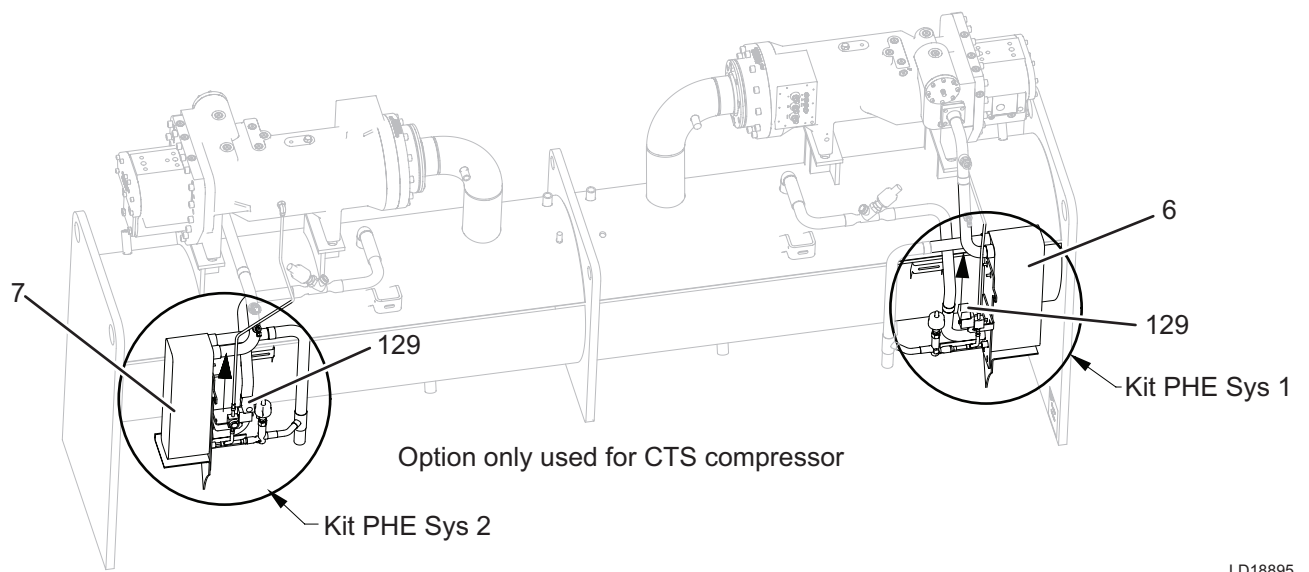
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**FIGURE 8 - UNIT PIPING FOR DUAL SYSTEMS**



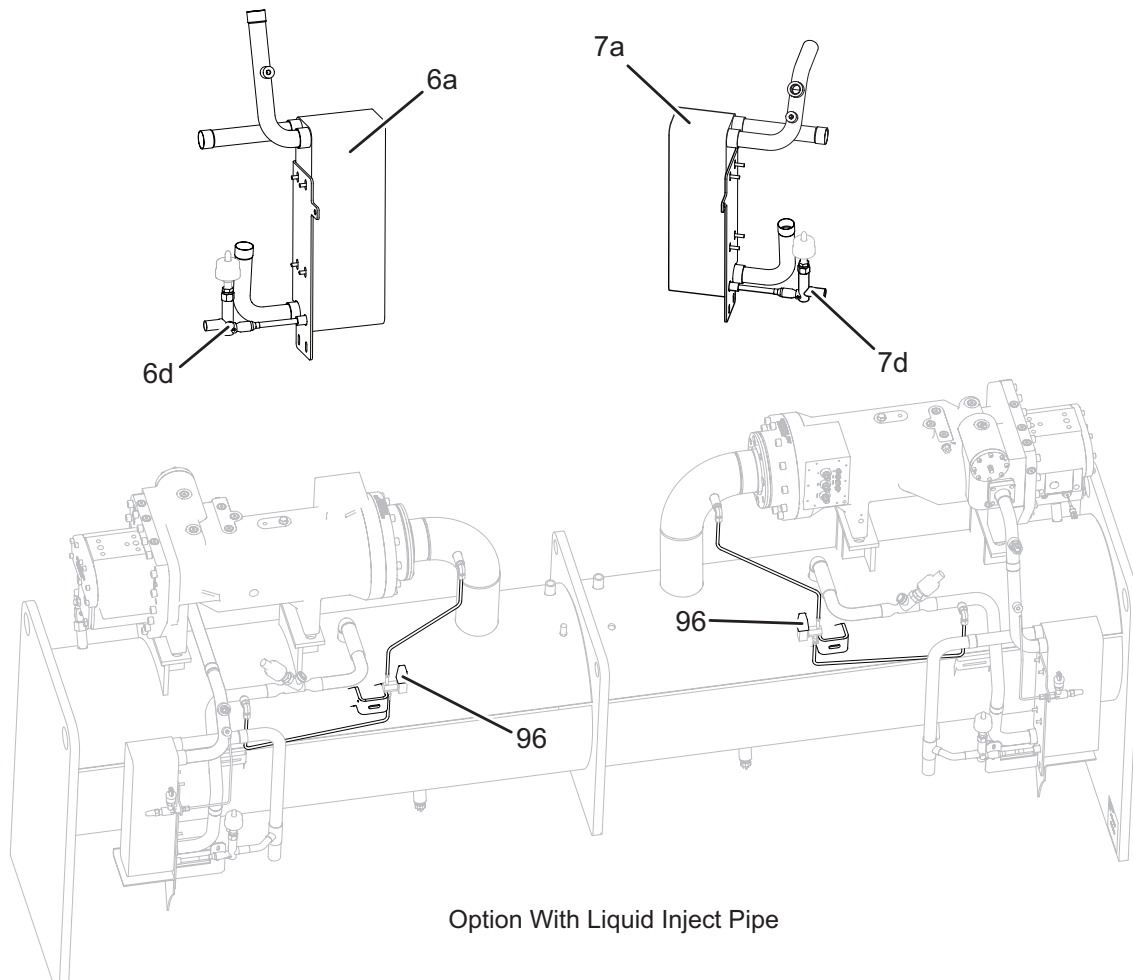
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**FIGURE 9 - UNIT PIPING FOR DUAL SYSTEMS**



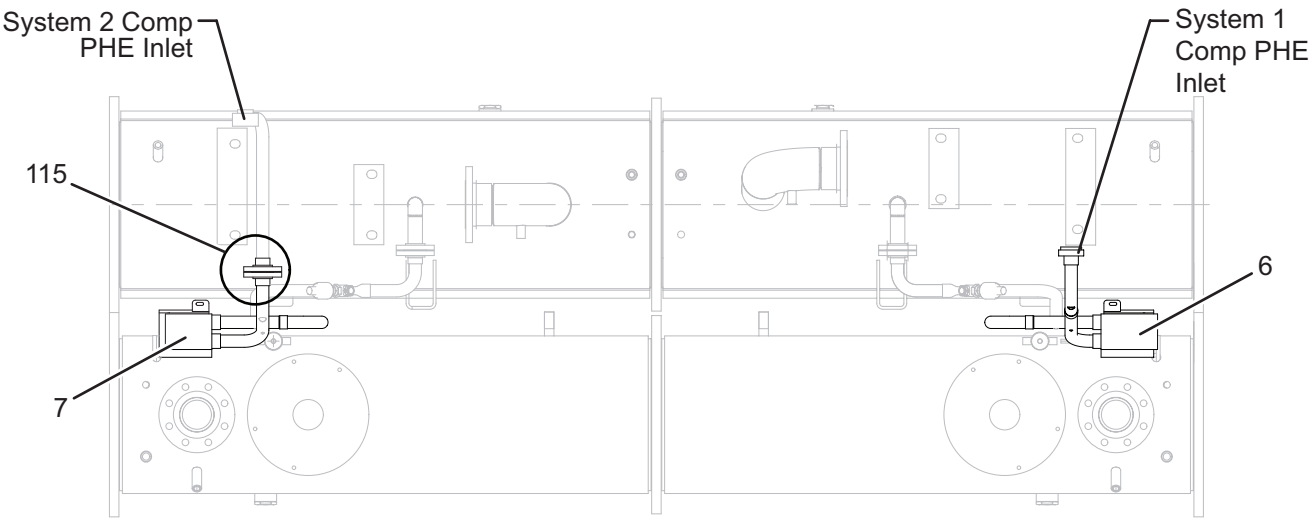
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**FIGURE 10 - UNIT PIPING FOR DUAL SYSTEMS**



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**FIGURE 11 - UNIT PIPING FOR DUAL SYSTEMS**

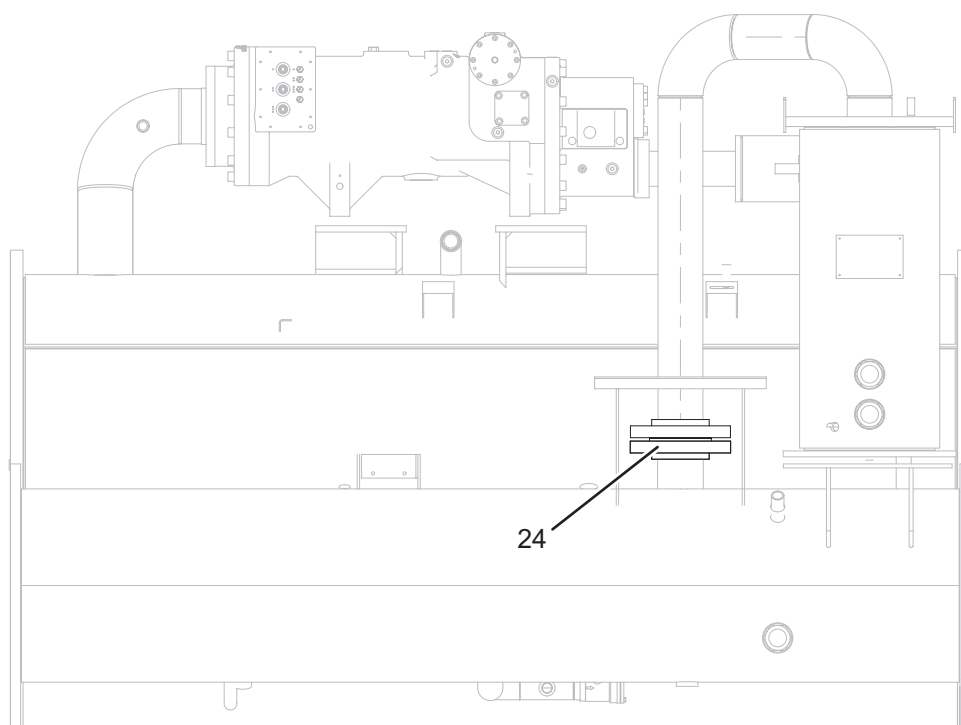


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**FIGURE 12 - UNIT PIPING FOR DUAL SYSTEMS**

**TABLE 7 - UNIT STEEL PIPING FOR SINGLE SYSTEMS**

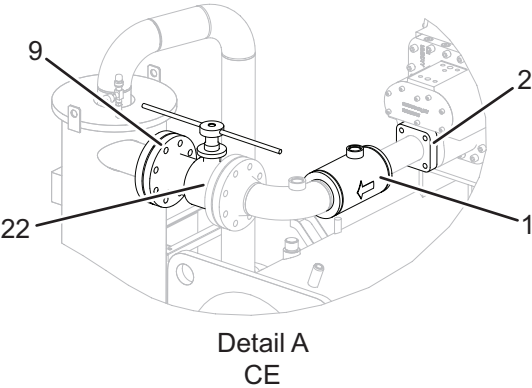
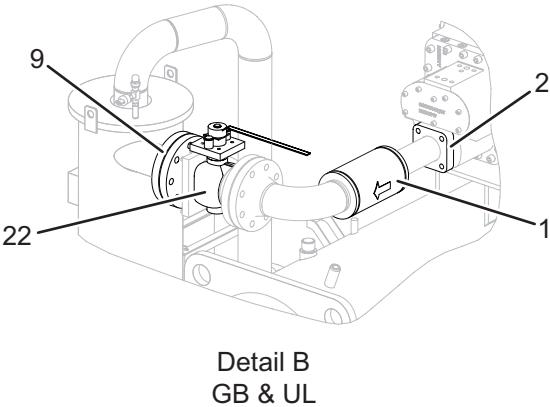
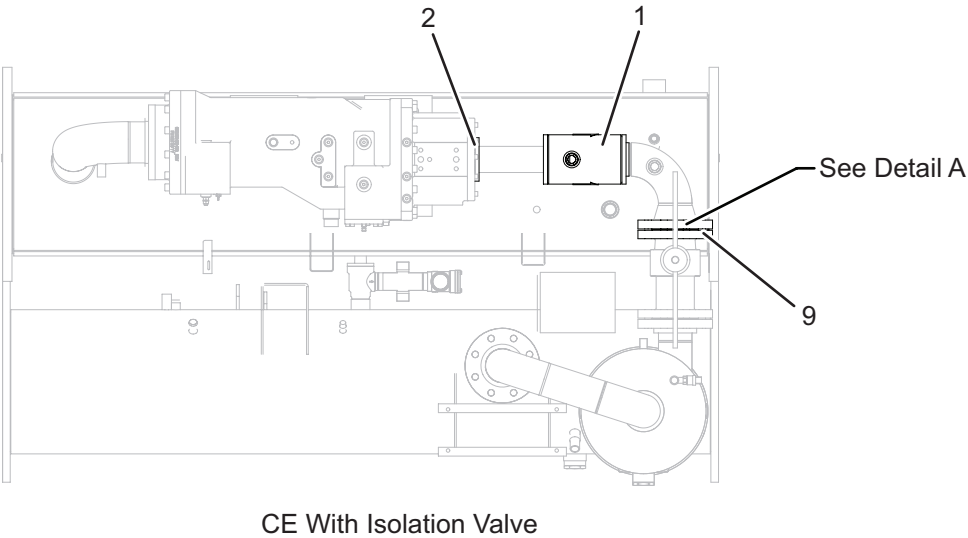
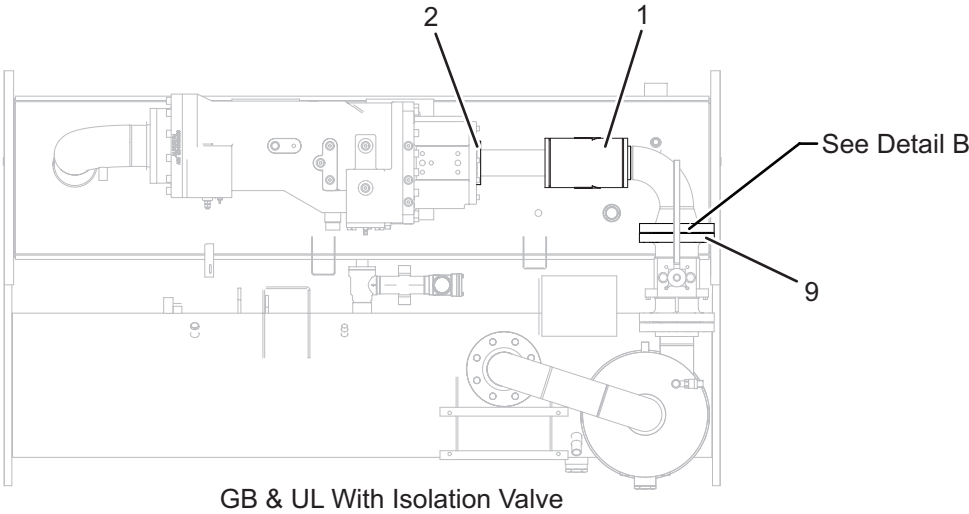
| ITEM      | DESCRIPTION                                                            | YORK PART NUMBER | SAP PART NUMBER | QUANTITY | FIGURE |
|-----------|------------------------------------------------------------------------|------------------|-----------------|----------|--------|
| <b>1</b>  | Muffler Assy WTS145 (Pin 9=F & Pin 50=A or G)                          | 392-06588-000    | 719626          | 1        | 14     |
|           | Muffler Assy WTS145 (Pin 9=F & Pin 38=X & Pin 50=E)                    | 392-06588-900    | 1091138         | 1        |        |
|           | Muffler Assy WTS145 CE Isol<br>(Pin 9=F & Pin 38=B & Pin 50=E)         | 392-10678-900    | 1091139         | 1        |        |
|           | Muffler Assy WTS151 (Pin 9=G & Pin 50=A or G)                          | 392-02763-000    | 719607          | 1        |        |
|           | Muffler Assy WTS151 (Pin 9=G & Pin 38=X & Pin 50=E)                    | 392-02763-900    | 1091117         | 1        |        |
|           | Muffler Assy WTS151 CE Isol<br>(Pin 9=G & Pin 38=B & Pin 50=E)         | 392-10674-900    | 1042403         | 1        |        |
| <b>2</b>  | Gasket, Flange 3.625 ID 5.75BC                                         | 028-15296-000    | 636248          | 1        | 14     |
| <b>9</b>  | Gasket, Round Ansi 4.00-300#                                           | 028-15075-059    | 710158          | 2        | 14     |
| <b>22</b> | Ball, Wheel Flanged Carbon Steel Inline<br>(Pin 38=B & Pin 50=G)       | 022-12141-008    | 723284          | 1        | 14     |
|           | Valve, Check Ball OD 101.6mm / 4in FLGFI<br>(Pin 38=B & Pin 50=A or E) | 022-12423-000    | 990006          | 1        |        |
| <b>24</b> | Gasket, Round Ansi 4.00-300# (Pin 77=H)                                | 028-15075-059    | 710158          | 1        | 13     |
|           | Gasket, Round Ansi 4.00-150# (Pin 77=L)                                | 028-15075-010    | 689698          | 1        |        |



**FIGURE 13 - UNIT STEEL PIPING FOR SINGLE SYSTEMS**

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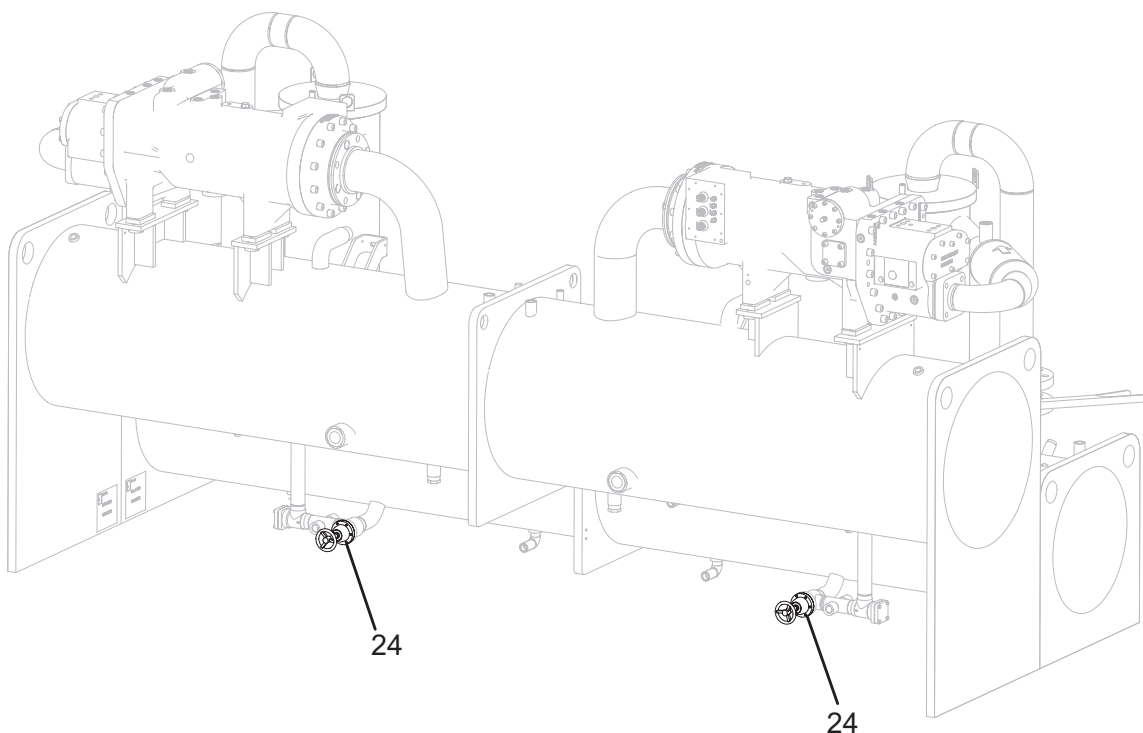


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FIGURE 14 - UNIT STEEL PIPING FOR SINGLE SYSTEMS

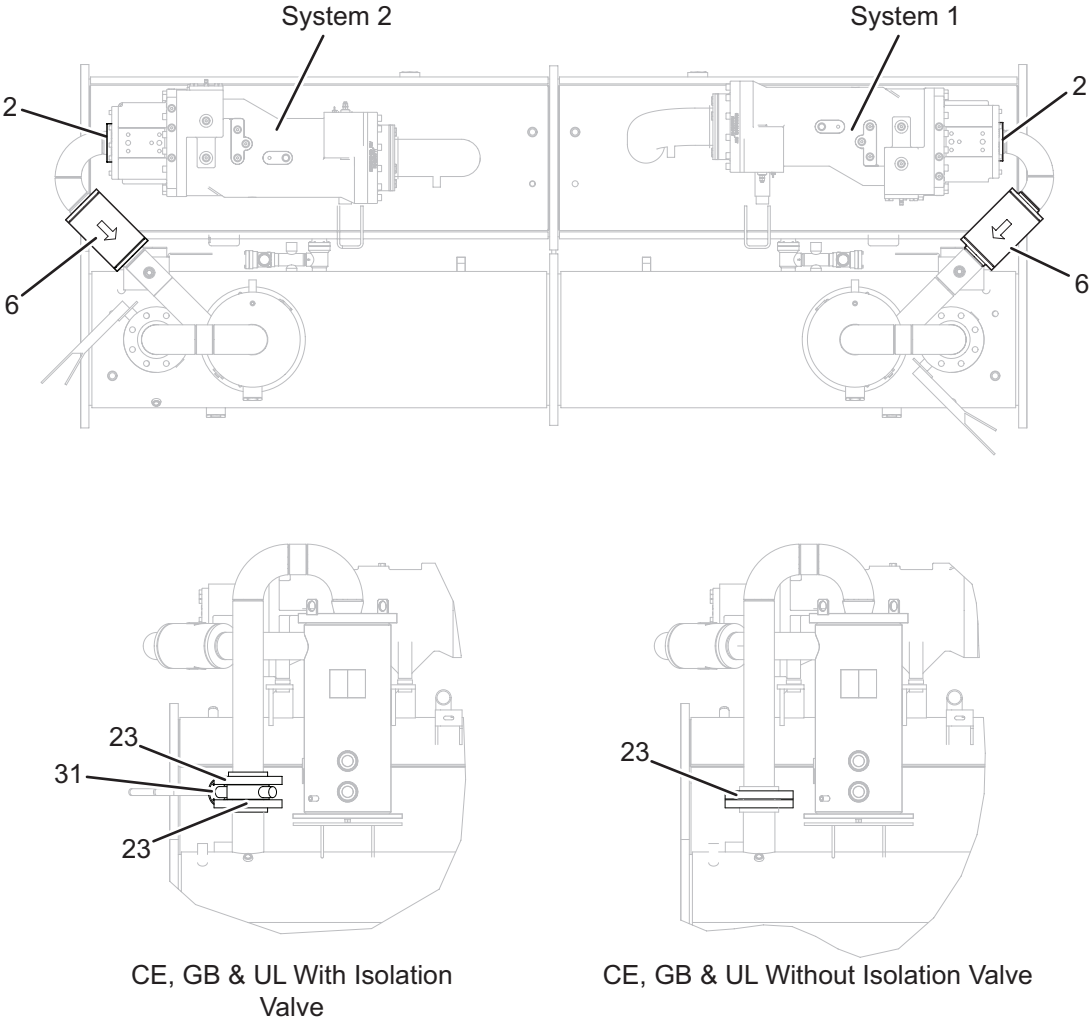
**TABLE 8 - UNIT STEEL PIPING FOR DUAL SYSTEMS**

| ITEM | DESCRIPTION                                                       | YORK PART NUMBER | SAP PART NUMBER | QUANTITY | FIGURE |
|------|-------------------------------------------------------------------|------------------|-----------------|----------|--------|
| 2    | Gasket, Flange 3.625 Id 5.75bc                                    | 028-15296-000    | 636248          | 2        | 16     |
| 6    | Muffler, WTS136 WTS145 WTS<br>(Pin 50=A OR G)                     | 392-02730-000    | 709140          | 2        | 16     |
|      | Muffler, WTS136 WTS145 WTS<br>(Pin 50=E)                          | 392-02730-900    | 1091116         | 2        |        |
| 23   | Gasket, Round ANSI 4.00-150# (Pin 77=L)                           | 028-15075-010    | 689698          | 4        | 16     |
|      | Gasket, Round ANSI 4.00-300#<br>(Pin 77=H)                        | 028-15075-059    | 710158          | 4        |        |
| 24   | Valve, HW Ang                                                     | 022-11216-005    | 397522          | 2        | 15     |
| 31   | Valve, Butterfly 4" High Perf<br>(Pin 38=B & Pin 50=A or G)       | 022-08874-000    | 116022          | 2        | 16     |
|      | Valve, Check Ball OD 101.6mm /<br>4in FLGFI (Pin 38=B & Pin 50=E) | 022-12423-000    | 990006          | 2        |        |



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**FIGURE 15 - UNIT STEEL PIPING FOR DUAL SYSTEMS**



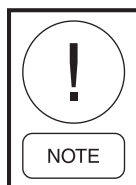
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**FIGURE 16 - UNIT STEEL PIPING FOR DUAL SYSTEMS**

**TABLE 9 - COMPRESSOR**

| ITEM | DESCRIPTION                                       | YORK PART NUMBER | SAP PART NUMBER | QUANTITY | FIGURE |
|------|---------------------------------------------------|------------------|-----------------|----------|--------|
| -    | Compressor, Heat Pump (136mm) CTS136              | 364-53622-400    | 1061503         | -        |        |
|      | Compressor, Heat Pump (136mm) CTS136 Step VI      | 364-53622-401    | 1061502         |          |        |
|      | Compressor, Screw (136mm) CTS36SAAD               | 364-53622-460    | 1088555         |          |        |
|      | Compressor, Screw (136mm) CTS36SAAD Step VI       | 364-53622-461    | 1088556         |          |        |
|      | Compressor, Screw (136mm) 2.3VI WTS36S            | 364-52925-400    | 671003          |          |        |
|      | Compressor, Screw (136mm) 2.3VI WTS36S            | 364-52925-460    | 837792          |          |        |
| -    | Compressor, Heat Pump (145mm) CTS145              | 364-53623-400    | 1061501         | -        |        |
|      | Compressor, Heat Pump (145mm) CTS145 Step VI      | 364-53623-401    | 1061500         |          |        |
|      | Compressor, Screw (145mm) CTS45SAAD               | 364-53623-460    | 1088557         |          |        |
|      | Compressor, Screw (145mm) CTS45SAAD Step VI       | 364-53623-461    | 1088558         |          |        |
|      | Compressor, Screw (145mm) 2.3VI WTS45S            | 364-52926-400    | 671004          |          |        |
|      | Compressor, Screw (145mm) 2.3VI WTS45S            | 364-52926-460    | 837793          |          |        |
| -    | Compressor, Heat Pump (151mm) CTS151              | 364-53629-400    | 1061499         | -        |        |
|      | Compressor, Heat Pump (151mm) CTS151 Step VI      | 364-53629-401    | 1061498         |          |        |
|      | Compressor, Screw (151mm) CTS45SAAE               | 364-53629-460    | 1088559         |          |        |
|      | Compressor, Screw (151mm) CTS45SAAE Step VI       | 364-53629-461    | 1088560         |          |        |
|      | Compressor, Screw (151mm) 2.3VI WTS51S            | 364-52927-400    | 710201          |          |        |
|      | Compressor, Screw (151mm) 2.3VI WTS51S            | 364-52927-460    | 837794          |          |        |
| 15   | Valve, Access 7/16"                               | 022-09715-000    | 62505           | 1        | 17     |
| 20   | Insulator, Bottom Terminal                        | 025-33200-000    | 48836           | 3        | 17     |
| 21   | Insulator, Top Terminal                           | 025-33201-000    | 1373            | 3        | 17     |
| 22   | Thermistor, 7/16"-20UNF-2A (Supplied with O-ring) | 025-33202-000    | 1374            | 4        | 17     |
| 23   | Strainer, Suction 4" (136)                        | 026-35600-100    | 683900          | 1        | *      |
|      | Strainer, Suction 5" (145)                        | 026-35600-300    | 513672          |          |        |
|      | Strainer, Suction 5" X 8-3/4" (151)               | 026-46664-000    | 697669          |          |        |
| 24   | Element, Oil Filter                               | 026-35601-000    | 1486            | 1        | 17     |
| 25   | O-ring, 2-152                                     | 028-13849-000    | 1567            | 1        | 17     |
| 31   | Seal, Terminal                                    | 028-13946-000    | 4107            | 3        | 17     |
| 35   | Gasket, 4" ANSI Flange (136)                      | 028-15133-101    | 921862          | 1        | 17     |
|      | Gasket, 5" ANSI Flange (145 & 151)                | 028-15133-103    | 513671          |          |        |

**NOTE:** Items with an \* are NOT represented.



*Compressors are not to be rebuilt in the field, they are required to be replaced as an assembly.*

*Refer to the Compressor Data Plate to verify the specific compressor model.*



*For Compressor Heaters see TABLE 25.*

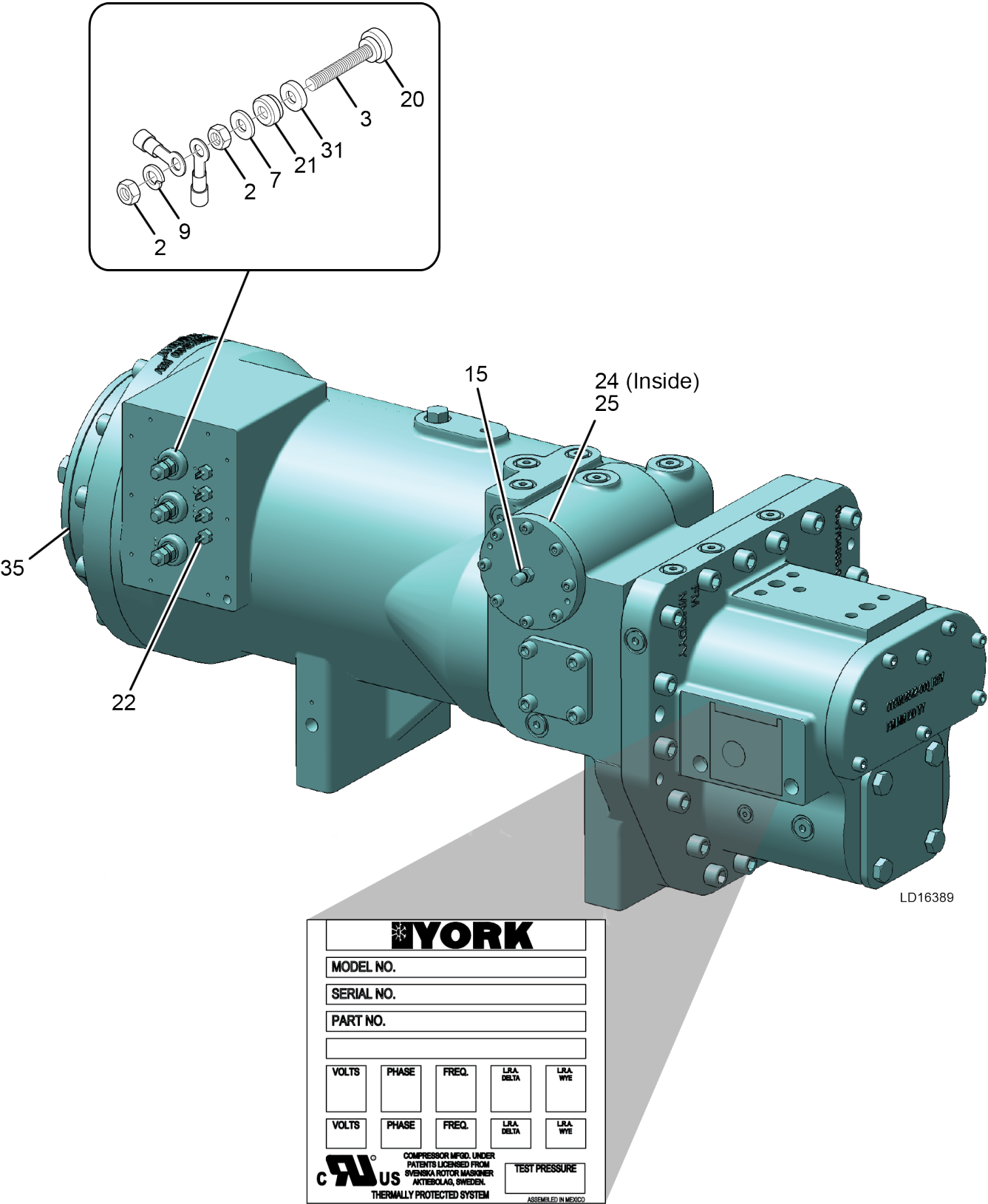
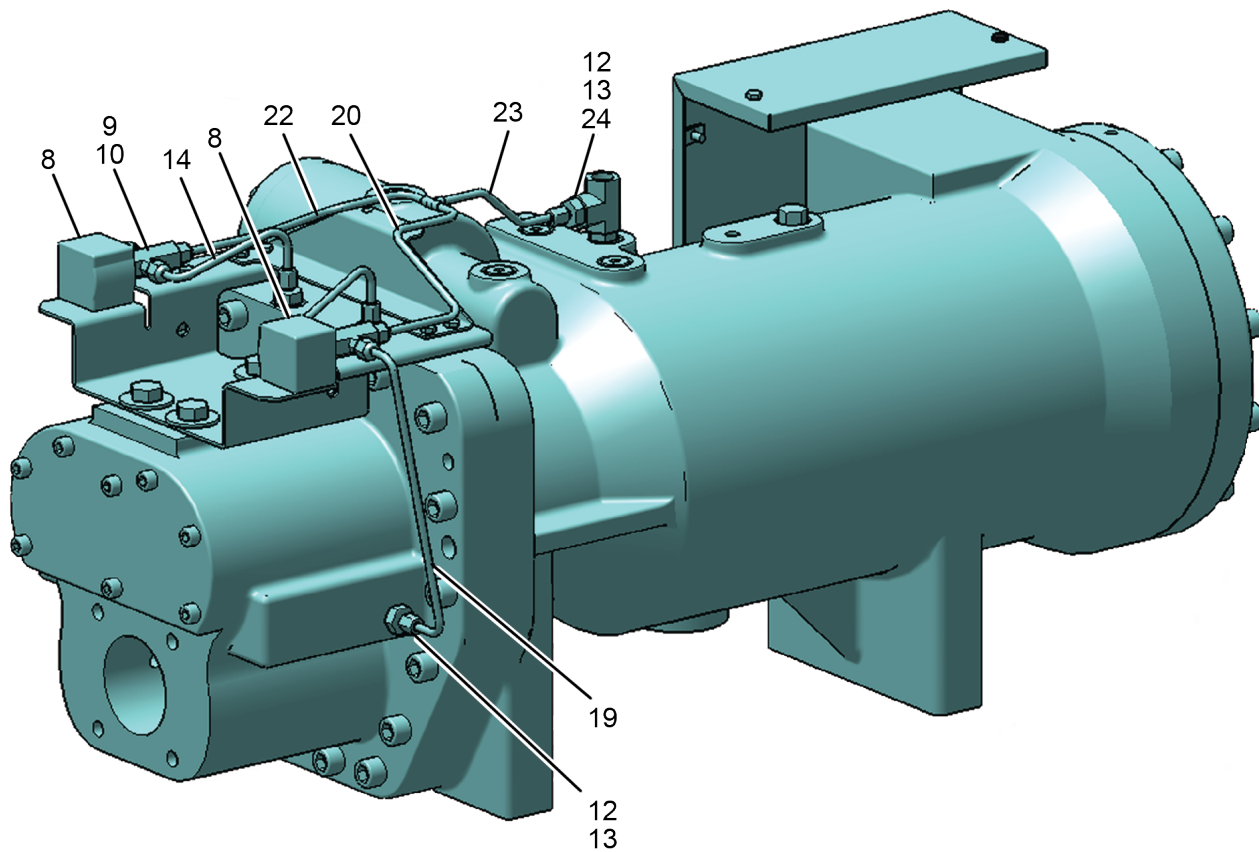
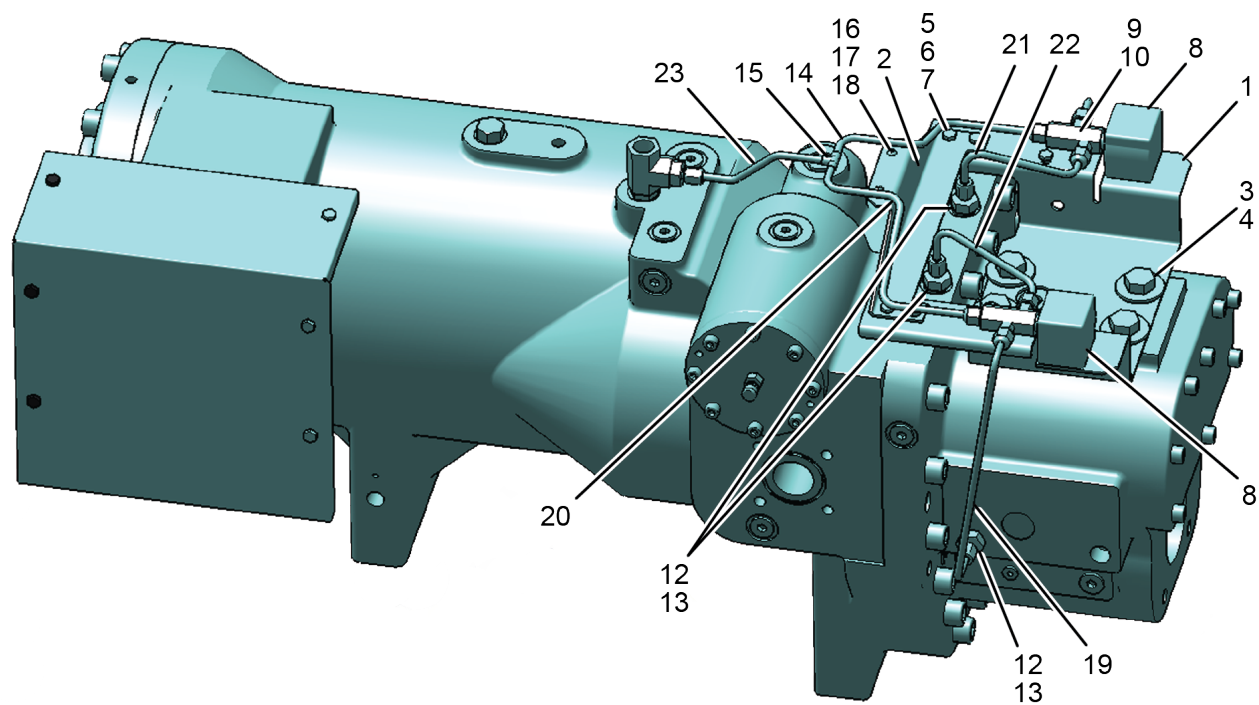


FIGURE 17 - COMPRESSOR

**TABLE 10 - COMPRESSOR STEP VI PIPING**

| ITEM | DESCRIPTION                                                             | YORK PART NUMBER | SAP PART NUMBER | QUANTITY | FIGURE |
|------|-------------------------------------------------------------------------|------------------|-----------------|----------|--------|
| 1    | Bracket, Piping Step VI                                                 | 075-93335-000    | 648507          | 2        | 18     |
| 2    | Bracket, Piping Step VI                                                 | 075-93335-001    | 648508          | 2        | 18     |
| 3    | Screw, Cap Hex Head 16 X 2.6G                                           | 021-19179-000    | 730391          | 8        | 18     |
| 4    | Washer, Plain 11/16"ID X 1-3/4"OD                                       | 021-16142-000    | 729906          | 8        | 18     |
| 5    | Screw, Hex Head Cap 1/4"-20 X 3/4" Gr 5 Emp                             | 021-19313-012    | 730445          | 12       | 18     |
| 6    | Washer, Plain 0.265"ID X 1/2"OD                                         | 021-10189-000    | 156429          | 12       | 18     |
| 7    | Nut, Self Lock Hex 1/4"-20UNC-2B                                        | 021-31953-000    | 730782          | 12       | 18     |
| 8    | Valve, Solenoid Din Coil                                                | 025-35151-000    | 739141          | 4        | 18     |
| 9    | Valve, 180, Solenoid                                                    | 025-43901-000    | 648515          | 4        | 18     |
| 10   | Nut, Flange Short Forged 45                                             | 021-05661-000    | 147571          | 12       | 18     |
| 11   | Clamp, Tube 7/8" OD                                                     | 021-11452-000    | 648520          | 2        | 18     |
| 12   | Fitting, 37 Deg Flared Tube                                             | 023-25192-000    | 648516          | 10       | 18     |
| 13   | O-Ring, Neo1, 0.644"ID 0.087"Thk                                        | 028-12961-004    | 588819          | 12       | 18     |
| 14   | Tube, Step VI, 1/4" OD x 0.049 wall                                     | 075-94028-007    | 648514          | 2        | 18     |
|      | Tube, Copper, 1/4" OD x 0.049 wall                                      | 007-02085-000    | 728167          | 20'      |        |
| 15   | Tee, Solid C X C X C 1/4"                                               | 023-04606-000    | 371718          | 2        | 18     |
| 16   | Clamp, Tube 1/4" OD                                                     | 021-13066-000    | 148499          | 4        | 18     |
| 17   | Screw, Mach Pan Head Recessed 1"                                        | 021-01719-000    | 729378          | 4        | 18     |
| 18   | Nut, Self Lock Hex #8-32UNC-2B                                          | 021-33161-000    | 648519          | 4        | 18     |
| 19   | Tube, Step VI, SST 1/4" OD x 0.049 wall                                 | 075-94028-001    | 648509          | 4        | 18     |
|      | Tube, SST, 1/4" OD x 0.049 wall                                         | 003-02412-000    | 727790          | 8-12'    |        |
| 20   | Tube, Step VI, 1/4" OD x 0.049 wall                                     | 075-94028-005    | 648512          | 2        | 18     |
|      | Tube, Copper 1/4" OD x 0.049 wall                                       | 007-02085-000    | 728167          | 20'      |        |
| 22   | Tube, Step VI, 1/4" OD x 0.049 wall,<br>(Pin 9 & 10 = FX)               | 075-94028-003    | 648510          | 2        | 18     |
|      | Tube, Copper 1/4" OD x 0.049 wall,<br>(Pin 9 & 10 = FX)                 | 007-02085-000    | 728167          | 20'      |        |
|      | Tube, Step VI, 1/4" OD x 0.049 wall,<br>(Pin 9 & 10 = GX)               | 075-94028-011    | 681558          | 2        |        |
|      | Tube, Copper 1/4" OD x 0.049 wall,<br>(Pin 9 & 10 = GX)                 | 007-02085-000    | 728167          | 20'      |        |
| 23   | Copper, Tube Step VI (136) (1/4" OD x 0.049 wall),<br>(Pin 9 & 10 = EE) | 075-94028-505    | 830619          | 2        | 18     |
|      | Tube, Copper 1/4" OD x 0.049 wall,<br>(Pin 9 & 10 = EE)                 | 007-02085-000    | 728167          | 20'      |        |
|      | Copper, Tube Step VI (145) (1/4" OD x 0.049 wall),<br>(Pin 9 & 10 = FE) | 075-94028-506    | 830620          | 2        |        |
|      | Tube, Copper 1/4" OD x 0.049 wall,<br>(Pin 9 & 10 = FE)                 | 007-02085-000    | 728167          | 20'      |        |
|      | Copper, Tube Step VI (145) (1/4" OD x 0.049 wall),<br>(Pin 9 & 10 = FF) | 075-94028-507    | 861273          | 2        | 18     |
|      | Tube, Copper 1/4" OD x 0.049 wall,<br>(Pin 9 & 10 = FF)                 | 007-02085-000    | 728167          | 20'      |        |
| 24   | Tee, Unf(F) 0.750In Unf(F) 0.750 Unf(M)                                 | 023-25549-000    | 827494          | 2        | 18     |

**NOTE:** Items with an \* are NOT represented.



LD16361

**FIGURE 18 - COMPRESSOR STEP VI PIPING**



**TABLE 11 - RELIEF VALVES SINGLE CIRCUIT**

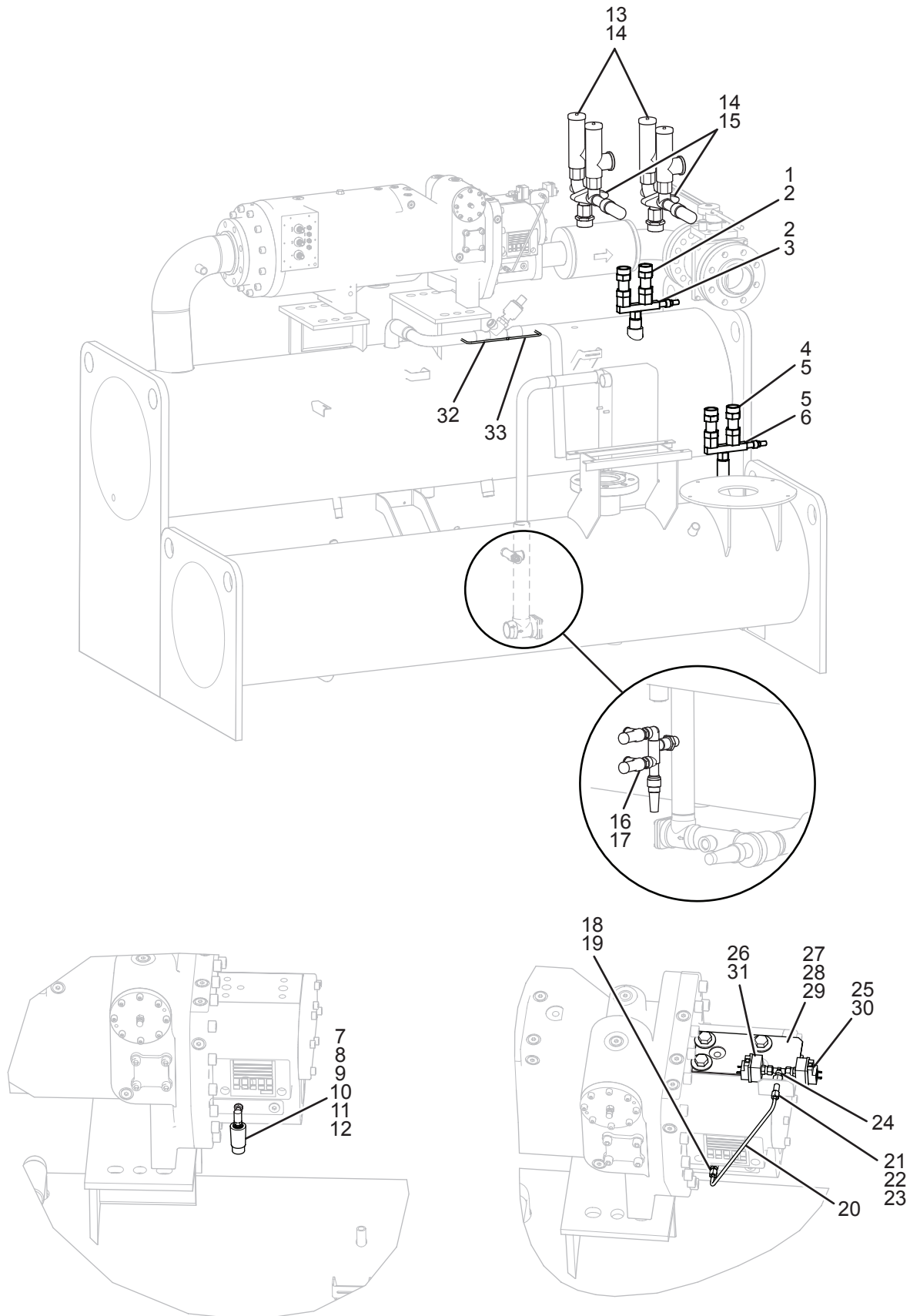
| ITEM | DESCRIPTION                                           | PART NUMBER   | SAP     | QUANTITY | FIGURE |
|------|-------------------------------------------------------|---------------|---------|----------|--------|
| 1    | Valve, Relief 1-5/16 -12Un-2A                         | 022-10078-000 | 4102    | 2        | 19     |
| 2    | O-Ring, Neo1 00.989Id .070Thk M (PIN 50=G)            | 028-12961-018 | 588824  | 3        | 19     |
|      | O-Ring, Neo1 01.171Id .116Thk M (PIN 50=A/E)          | 028-12961-008 | 588822  |          |        |
| 3    | Valve, Stop 3 Way 1-5/16                              | 022-10073-000 | 4103    | 1        | 19     |
| 4    | Valve, Relief 7/8 -14Unf-2A (PIN 50=G , PIN 77=L)     | 022-11011-000 | 717621  | 2        | 19     |
|      | Valve, Relief 7/8 -14Unf-2A (PIN 50=G , PIN 77=H)     | 022-12109-000 | 717624  |          |        |
|      | Valve, Relief 1-5/16 -12Un-2A (PIN 50=A/E, PIN 77=H)  | 022-12239-000 | 822272  |          |        |
|      | Valve, Relief 1-5/16 -12Un-2A (PIN 50=A/E, PIN 77=L)  | 022-10078-000 | 4102    |          |        |
| 5    | O-Ring Neo1 00.755Id .097Thk M (PIN 50=G)             | 028-12961-005 | 588820  | 3        | 19     |
|      | O-Ring Neo1 01.171Id .116Thk M (PIN 50=A/E)           | 028-12961-008 | 588822  |          |        |
| 6    | Valve, Stop 3 Way 7/8-14Unf-2A (PIN 50=G)             | 022-10072-000 | 48292   | 1        | 19     |
|      | Valve, Stop 3 Way 1-5/16 (PIN 50=A/E)                 | 022-10073-000 | 4103    |          |        |
| 7    | O-Ring Neo1 00.351Id .072Thk M                        | 028-12961-001 | 588817  | 1        | 19     |
| 8    | Ell 90 Deg 3/16Od Tube 7/16X3/8                       | 023-25808-000 | 961160  | 1        | 19     |
| 9    | O-Ring Neo1 00.301Id .064Thk M                        | 028-12961-021 | 588826  | 1        | 19     |
| 10   | High Pressure Cutout (PIN 50=G/A, PIN 77=L)           | 025-35932-000 | 1397    | 1        | 19     |
|      | Pressure Switch Fixed 2.4Mpa (PIN 50=G/A, PIN 77=H)   | 025-39751-271 | 705231  |          |        |
| 11   | Harness, HPCO (PIN 50=G/A)                            | 592-07172-055 | 836141  | 1        | 19     |
|      | Connector, DIN Plug 43650 w/ Suppressor (HPCO End)    | 025-37876-000 | 117987  | 1        |        |
|      | Connector, 3/8" Straight (HPCO End)                   | 025-31309-000 | 117547  | 1        |        |
|      | Conduit, 3/8                                          | 025-31302-000 | 618155  | 3.5'     |        |
|      | Connector, 3/8 Straight (JB-P38-1,2 End)              | 025-31309-000 | 117547  | 1        |        |
|      | Terminal Pin #20-14 AWG (JB-P38-1,2 End)              | 025-20919-000 | 737624  | 2        |        |
| 12   | Connector, Male Din 43850                             | 025-40232-000 | 144690  | 1        | 19     |
| 13   | Relief Valve (PIN 50=E, PIN 77=H)                     | 022-12673-000 | 1073497 | 2        | 19     |
|      | Relief Valve (PIN 50=E, PIN 77=L)                     | 022-12582-000 | 1073494 |          |        |
| 14   | O-Ring, Neo1 01.475Id .118Thk M                       | 028-12961-017 | 618653  | 2        | 19     |
| 15   | 3 Way Valve (PIN 50=E, PIN 77=H)                      | 022-12672-000 | 1073496 | 2        | 19     |
|      | Valve, Stop 3 Way 1-5/8 (PIN 50=E, PIN 77=L)          | 022-10074-000 | 4104    |          |        |
| 16   | Safety Valve 26.8Bar Od 12.7mm (PIN 50=E, PIN 77=H)   | 022-12363-000 | 990004  | 1        | 19     |
|      | Relief, Valve (PIN 50=E, PIN 77=L)                    | 022-12583-000 | 1073495 |          |        |
| 17   | Valve, Check Stop Od 12.7Mm / 1/2In Thd               | 022-12364-000 | 990005  | 1        | 19     |
| 18   | O-Ring, Neo1 00.351Id .072Thk M                       | 028-12961-001 | 588817  | 1        | 19     |
| 19   | Fitting, 37 Deg. Flared Tube                          | 023-25414-000 | 699734  | 1        | 19     |
| 20   | Tube, HPCO Cutout                                     | 092-10676-000 | 990009  | 1        | 19     |
| 21   | Bulkhead, 37 Deg. Flared Tube                         | 023-25415-000 | 734207  | 1        | 19     |
| 22   | Nut, Flare Hydraulic 1/4 Od                           | 023-09670-000 | 146787  | 1        | 19     |
| 23   | Sleeve, Flare Hydraulic 1/4 Od                        | 023-10000-000 | 146748  | 1        | 19     |
| 24   | Tee, 1/4 X 1/4 Ext Fla X                              | 023-00972-000 | 371710  | 1        | 19     |
| 25   | Manual Reset High Pressure (PIN 50=E, PIN 77=H)       | 025-44464-000 | 678497  | 1        | 19     |
|      | Pressostat To 48.00Bar Fla No Nz (PIN 50=E, PIN 77=L) | 025-46343-000 | 1055114 |          |        |
| 26   | High Press Sw 1/4" Female Flare (PIN 50=E, PIN 77=H)  | 025-44981-000 | 818638  | 1        | 19     |
|      | Pressostat To 48.00Bar Fla No Nz (PIN 50=E, PIN 77=L) | 025-46344-000 | 1055115 |          |        |
| 27   | Bracket, Press Switch Mtg                             | 092-10670-000 | 961171  | 1        | 19     |
| 28   | Screw, Cap Hex Hd 16 X 2.6G                           | 021-19179-000 | 730391  | 4        | 19     |



**TABLE 11 (CONT'D) - RELIEF VALVES SINGLE CIRCUIT**

| ITEM      | DESCRIPTION                                          | PART NUMBER   | SAP    | QUANTITY | FIGURE |
|-----------|------------------------------------------------------|---------------|--------|----------|--------|
| <b>29</b> | Washer, Plain 11/16 Id X 1-3/4                       | 021-16142-000 | 729906 | 4        | 19     |
| <b>30</b> | Harness, Sys1 HPCO1 <b>(PIN 50=E)</b>                | 592-00580-224 | 818634 | 1        | 19     |
|           | Connector, DIN Plug 43650 w/ Suppressor (1-FHP1 End) | 025-37876-000 | 117987 | 1        |        |
|           | Connector, 3/8" Straight (1-FHP1 End)                | 025-31309-000 | 117547 | 1        |        |
|           | Conduit, 3/8"                                        | 025-31302-000 | 618155 | 3.5'     |        |
|           | Connector, 3/8" Straight (Compressor End)            | 025-31309-000 | 117547 | 1        |        |
|           | Terminal Pin #20-14 AWG (Compressor End)             | 025-20919-000 | 737624 | 2        |        |
| <b>31</b> | Harness, Sys1 HPCO2 <b>(PIN 50=E)</b>                | 592-00580-225 | 818635 | 1        | 19     |
|           | Connector, DIN Plug 43650 w/ Suppressor (1-FHP2 End) | 025-37876-000 | 117987 | 1        |        |
|           | Connector, 3/8" Straight (1-FHP2 End)                | 025-31309-000 | 117547 | 1        |        |
|           | Conduit, 3/8"                                        | 025-31302-000 | 618155 | 3.5'     |        |
|           | Connector, 3/8" Straight (Compressor End)            | 025-31309-000 | 117547 | 1        |        |
|           | Terminal Pin #20-14 AWG (Compressor End)             | 025-20919-000 | 737624 | 2        |        |
| <b>32</b> | Capillary Bypass Tube 1                              | 092-06474-001 | 917053 | 1        | 19     |
| <b>33</b> | Capillary Bypass Tube 2                              | 092-06474-002 | 917054 | 1        | 19     |

**NOTE:** Items with an \* are NOT represented.



LD17784

**FIGURE 19 - RELIEF VALVES SINGLE CIRCUIT**

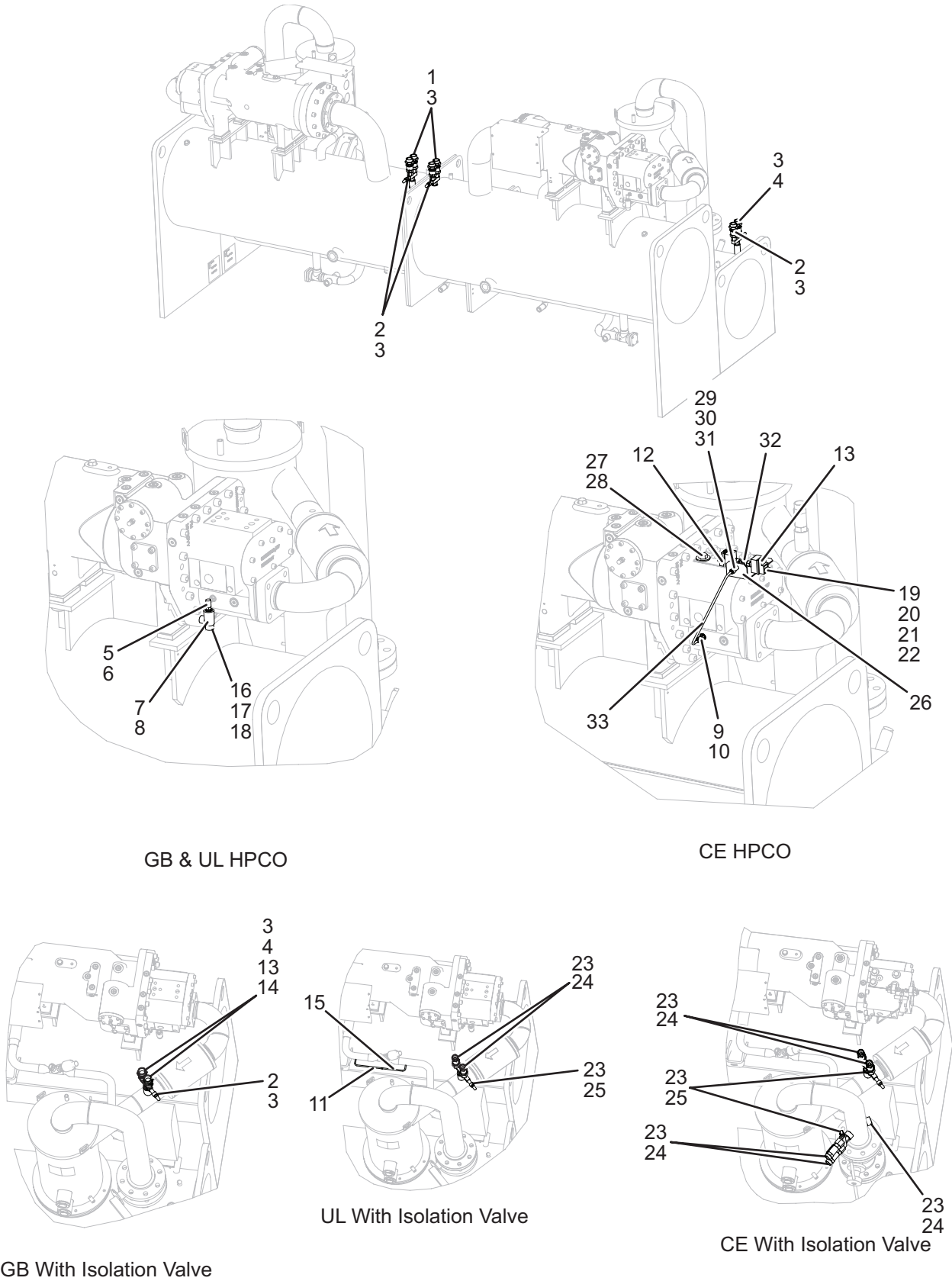
**TABLE 12 - RELIEF VALVES DUAL CIRCUIT**

| ITEM | DESCRIPTION                                             | YORK PART NUMBER | SAP PART NUMBER | QUANTITY | FIGURE |
|------|---------------------------------------------------------|------------------|-----------------|----------|--------|
| 1    | Valve, Relief 7/8 -14Unf-2A (PIN 50=G)                  | 022-11011-000    | 717621          | 4        | 20     |
|      | Inline Pressure Relief Valve (PIN 50=A/E)               | 022-12236-000    | 822269          |          |        |
| 2    | Valve, Stop 3 Way 7/8-14Unf-2A                          | 022-10072-000    | 48292           | 4        | 20     |
| 3    | O-Ring, Neo1 00.755ld .097Thk M                         | 028-12961-005    | 588820          | 12       | 20     |
| 4    | Valve, Relief 7/8 -14Unf-2A (PIN 50=G, Pin 77=H)        | 022-12109-000    | 717624          | 4        | 20     |
|      | Valve, Relief 7/8-14Unf-2A (PIN 50=G, Pin 77=M)         | 022-12466-000    | 1019332         |          |        |
|      | Inline, Pressure Relief Valve (PIN 50=A/E, Pin 77=H)    | 022-12235-000    | 822268          |          |        |
|      | Valve, Relief 7/8-14Unf-2A (PIN 50=A, Pin 77=M)         | 022-12404-000    | 885767          |          |        |
| 5    | O-Ring, Neo1 00.351ld .072Thk M                         | 028-12961-001    | 588817          | 2        | 20     |
| 6    | Ell, 90 Deg 3/16Od Tube 7/16X3/8 (PIN 50=G/A, Pin 77=H) | 023-25808-000    | 961160          | 2        | 20     |
|      | Adapter, 90 Deg M X M 7/16-20Unf (PIN 5=G/A, Pin 77=M)  | 023-25920-000    | 994038          |          |        |
| 7    | O-Ring, Neo1 00.301ld .064Thk M                         | 028-12961-021    | 588826          | 2        | 20     |
| 8    | Pressure Switch Fixed 2.4Mpa (PIN 50=G/A, Pin 77=H)     | 025-39751-271    | 705231          | 2        | 20     |
|      | Pressure Swtich 2.06/1.36Mpa 3/8" (PIN 50=G, Pin 77=M)  | 025-39751-272    | 1017912         |          |        |
|      | Switch, Auto Hp (PIN 50=A, Pin 77=M)                    | 025-39956-002    | 991662          |          |        |
|      | High Press Sw 1/4" Female Flare (PIN 50=E, Pin 77=H)    | 025-44981-000    | 818638          | 2        |        |
| 9    | O-Ring, Neo1 00.351ld .072Thk M                         | 028-12961-001    | 588817          | 2        | 20     |
| 10   | Fitting, 37 Deg. Flared Tube                            | 023-25414-000    | 699734          | 2        | 20     |
| 11   | Capillary Bypass Tube 1                                 | 092-06474-001    | 917053          | 2        | 20     |
| 12   | Capillary Bypass Tube 2                                 | 092-06474-002    | 917054          | 2        | 20     |
| 13   | Manual Reset High Pressure (PIN 50=E, Pin 77=H)         | 025-44464-000    | 678497          | 2        | 20     |
| 14   | Valve, Relief 7/8-14Unf-2A (PIN 50=G, Pin 77=M)         | 022-12466-000    | 1019332         | 4        | 20     |
| 15   | Valve, Stop 3 Way 7/8-14Unf-2A (PIN 50=G, Pin 77=M)     | 022-10072-000    | 48292           | 2        | 20     |
| 16   | Harness, Sys1 HPCO (PIN 50=G/A)                         | 592-00580-212    | 683104          | 1        | 20     |
|      | Connector, 3/8" Straight (JB-P38-1,2 End)               | 025-31309-000    | 117547          | 1        |        |
|      | Terminal Pin #20-14 AWG                                 | 025-20919-000    | 737624          | 2        |        |
|      | Conduit, 3/8"                                           | 025-31302-000    | 618155          | 3.5'     |        |
|      | Connector, 3/8" Straight (HPCO End)                     | 025-31309-000    | 737624          | 1        |        |
|      | Connector, DIN Plug (HPCO End)                          | 025-37876-000    | 117987          | 1        |        |

**TABLE 12 (CONT'D) - RELIEF VALVES DUAL CIRCUIT**

| ITEM | DESCRIPTION                               | YORK PART NUMBER | SAP PART NUMBER | QUANTITY | FIGURE |
|------|-------------------------------------------|------------------|-----------------|----------|--------|
| 17   | Harness, Sys2 HPCO (PIN 50=G/A)           | 592-00580-213    | 683105          | 1        | 220    |
|      | Connector, 3/8" Straight (Compressor End) | 025-31309-000    | 117547          | 1        |        |
|      | Terminal Pin #20-14 AWG                   | 025-20919-000    | 737624          | 2        |        |
|      | Conduit, 3/8"                             | 025-31302-000    | 618155          | 3.5'     |        |
|      | Connector, 3/8" Straight (HPCO End)       | 025-31309-000    | 117547          | 1        |        |
|      | Connector, DIN Plug (HPCO End)            | 025-37876-000    | 117987          | 1        |        |
| 18   | Connector, Male Din 43850                 | 025-40232-000    | 144690          | 2        | 20     |
| 19   | Harness, Sys1 HPCO CE (PIN 50=E)          | 592-00580-224    | 818634          | 1        | 20     |
|      | Connector, 3/8" Straight (Compressor End) | 025-31309-000    | 117547          | 1        |        |
|      | Terminal Pin #20-14 AWG                   | 025-20919-000    | 737624          | 2        |        |
|      | Conduit, 3/8"                             | 025-31302-000    | 618155          | 3.5'     |        |
|      | Connector, 3/8" Straight (HPCO End)       | 025-31309-000    | 117547          | 1        |        |
|      | Connector, DIN Plug (HPCO End)            | 025-37876-000    | 117987          | 1        |        |
| 20   | Harness, Sys1 HPCO2 CE (PIN 50=E)         | 592-00580-225    | 818635          | 1        | 20     |
|      | Connector, 3/8" Straight (Compressor End) | 025-31309-000    | 117547          | 1        |        |
|      | Terminal Pin #20-14 AWG                   | 025-20919-000    | 737624          | 2        |        |
|      | Conduit, 3/8"                             | 025-31302-000    | 618155          | 3.5'     |        |
|      | Connector, 3/8" Straight (HPCO End)       | 025-31309-000    | 117547          | 1        |        |
|      | Connector, DIN Plug (HPCO End)            | 025-37876-000    | 117987          | 1        |        |
| 21   | Harness, Sys2 HPCO1 CE (PIN 50=E)         | 592-00580-226    | 818636          | 1        | 20     |
|      | Connector, 3/8" Straight (Compressor End) | 025-31309-000    | 117547          | 1        |        |
|      | Terminal Pin #20-14 AWG                   | 025-20919-000    | 737624          | 2        |        |
|      | Conduit, 3/8"                             | 025-31302-000    | 618155          | 3.5'     |        |
|      | Connector, 3/8" Straight (HPCO End)       | 025-31309-000    | 117547          | 1        |        |
|      | Connector, DIN Plug (HPCO End)            | 025-37876-000    | 117987          | 1        |        |
| 22   | Harness, Sys2 HPCO2 CE (PIN 50=E)         | 592-00580-227    | 818637          | 1        | 20     |
|      | Connector, 3/8" Straight (Compressor End) | 025-31309-000    | 117547          | 1        |        |
|      | Terminal Pin #20-14 AWG                   | 025-20919-000    | 737624          | 2        |        |
|      | Conduit, 3/8"                             | 025-31302-000    | 618155          | 3.5'     |        |
|      | Connector, 3/8" Straight (HPCO End)       | 025-31309-000    | 117547          | 1        |        |
|      | Connector, DIN Plug (HPCO End)            | 025-37876-000    | 117987          | 1        |        |
| 23   | O-Ring, Neo1 01.1711d .116Thk M           | 028-12961-008    | 588822          | 2        | 20     |
| 24   | Valve, Relief 1-5/16 -12Un-2A             | 022-12239-000    | 822272          | 2        | 20     |
| 25   | Valve, Stop 3 Way 1-5/16                  | 022-10073-000    | 4103            | 2        | 20     |
| 26   | Bracket, Press Switch Mtg                 | 092-10670-000    | 961171          | 2        | 20     |
| 27   | Screw, Cap Hex Hd 16 X 2.6G               | 021-19179-000    | 730391          | 8        | 20     |
| 28   | Washer, Plain 11/16 Id X 1-3/4            | 021-16142-000    | 729906          | 8        | 20     |
| 29   | Bulkhead, 37 Deg. Flared Tube             | 023-25415-000    | 734207          | 2        | 20     |
| 30   | Nut, Flare Hydraulic 1/4 OD               | 023-09670-000    | 146787          | 2        | 20     |
| 31   | Sleeve, Flare Hydraulic 1/4 OD            | 023-10000-000    | 146748          | 2        | 20     |
| 32   | Tee, 1/4 X 1/4 Ext Fla X                  | 023-00972-000    | 371710          | 2        | 20     |
| 33   | Tube, HPCO Cutout                         | 075-94078-100    | 843337          | 2        | 20     |

**NOTE:** Items with an \* are NOT represented.



LD18898

FIGURE 20 - RELIEF VALVES DUAL CIRCUIT

**TABLE 13 - CONDENSER COMPACT (PIN 70=C) WATERBOX GASKETS**

**1 PASS - 150PSIG**

| PIN 74 | DESCRIPTION                  | YORK PART NUMBER | SAP PART NUMBER | QUANTITY (CUN) |
|--------|------------------------------|------------------|-----------------|----------------|
| A / H  | Gasket, Channel 50 Durometer | 028-09551-*      | 3802            | 11 ft.         |

**2 PASS - 150PSIG**

| PIN 74 | DESCRIPTION                  | YORK PART NUMBER | SAP PART NUMBER | QUANTITY (CUN) |
|--------|------------------------------|------------------|-----------------|----------------|
| C / K  | Gasket, Channel 50 Durometer | 028-09551-*      | 3802            | 12 ft.         |

**3 PASS - 150PSIG**

| PIN 74 | DESCRIPTION                  | YORK PART NUMBER | SAP PART NUMBER | QUANTITY (CUN) |
|--------|------------------------------|------------------|-----------------|----------------|
| G / P  | Gasket, Channel 50 Durometer | 028-09551-*      | 3802            | 14 ft.         |

**1 PASS - 300PSIG**

| PIN 74 | DESCRIPTION                  | YORK PART NUMBER | SAP PART NUMBER | QUANTITY (CUN) |
|--------|------------------------------|------------------|-----------------|----------------|
| A / H  | Gasket, Channel 50 Durometer | 028-09551-*      | 3802            | 11 ft.         |
|        | Gasket                       | 092-18049-000    | 1065022         | 2 ft.          |

**2 PASS - 300PSIG**

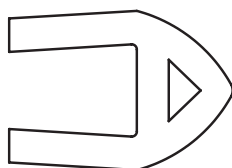
| PIN 74 | DESCRIPTION                  | YORK PART NUMBER | SAP PART NUMBER | QUANTITY (CUN) |
|--------|------------------------------|------------------|-----------------|----------------|
| C / K  | Gasket, Channel 50 Durometer | 028-09551-*      | 3802            | 12 ft.         |
|        | Gasket                       | 092-18049-000    | 1065022         | 1 ft.          |

**3 PASS - 300PSIG**

| PIN 74 | DESCRIPTION                  | YORK PART NUMBER | SAP PART NUMBER | QUANTITY (CUN) |
|--------|------------------------------|------------------|-----------------|----------------|
| G / P  | Gasket, Channel 50 Durometer | 028-09551-*      | 3802            | 14 ft.         |
|        | Gasket                       | 092-18049-000    | 1065022         | 1 ft.          |

\* Specify length required by replacing the -000 with either -025 for 25 feet, -050 for 50 feet or -100 for 100 feet.

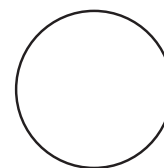
028-09551-\*



028-03242-\*



092-18049-\*



LD18955

**FIGURE 21 - CONDENSER WATERBOX GASKET**

**TABLE 14 - CONDENSER EPOXY COATED (PIN 71=C) COMPACT (PIN 70=C) WATERBOX GASKETS**

**1 PASS - 150PSIG**

| <b>PIN 74</b> | <b>DESCRIPTION</b>           | <b>YORK PART NUMBER</b> | <b>SAP PART NUMBER</b> | <b>QUANTITY (CUN)</b> |
|---------------|------------------------------|-------------------------|------------------------|-----------------------|
| <b>A / H</b>  | Gasket, Channel 50 Durometer | 028-09551-*             | 3802                   | 11 ft.                |
|               | Gasket                       | 092-18049-000           | 1065022                | 1 ft.                 |

**2 PASS - 150PSIG**

| <b>PIN 74</b> | <b>DESCRIPTION</b>           | <b>YORK PART NUMBER</b> | <b>SAP PART NUMBER</b> | <b>QUANTITY (CUN)</b> |
|---------------|------------------------------|-------------------------|------------------------|-----------------------|
| <b>C / K</b>  | Gasket, Channel 50 Durometer | 028-09551-*             | 3802                   | 12 ft.                |
|               | Gasket                       | 092-18049-000           | 1065022                | 1 ft.                 |

**3 PASS - 150PSIG**

| <b>PIN 74</b> | <b>DESCRIPTION</b>           | <b>YORK PART NUMBER</b> | <b>SAP PART NUMBER</b> | <b>QUANTITY (CUN)</b> |
|---------------|------------------------------|-------------------------|------------------------|-----------------------|
| <b>G / P</b>  | Gasket, Channel 50 Durometer | 028-09551-*             | 3802                   | 14 ft.                |
|               | Gasket                       | 092-18049-000           | 1065022                | 1 ft.                 |

**1 PASS - 300PSIG**

| <b>PIN 74</b> | <b>DESCRIPTION</b>           | <b>YORK PART NUMBER</b> | <b>SAP PART NUMBER</b> | <b>QUANTITY (CUN)</b> |
|---------------|------------------------------|-------------------------|------------------------|-----------------------|
| <b>A / H</b>  | Gasket, Channel 50 Durometer | 028-09551-*             | 3802                   | 11 ft.                |
|               | Gasket                       | 092-18049-000           | 1065022                | 2 ft.                 |

**2 PASS - 300PSIG**

| <b>PIN 74</b> | <b>DESCRIPTION</b>           | <b>YORK PART NUMBER</b> | <b>SAP PART NUMBER</b> | <b>QUANTITY (CUN)</b> |
|---------------|------------------------------|-------------------------|------------------------|-----------------------|
| <b>C / K</b>  | Gasket, Channel 50 Durometer | 028-09551-*             | 3802                   | 12 ft.                |
|               | Gasket                       | 092-18049-000           | 1065022                | 1 ft.                 |

**3 PASS - 300PSIG**

| <b>PIN 74</b> | <b>DESCRIPTION</b>           | <b>YORK PART NUMBER</b> | <b>SAP PART NUMBER</b> | <b>QUANTITY (CUN)</b> |
|---------------|------------------------------|-------------------------|------------------------|-----------------------|
| <b>G / P</b>  | Gasket, Channel 50 Durometer | 028-09551-*             | 3802                   | 14 ft.                |
|               | Gasket                       | 092-18049-000           | 1065022                | 1 ft.                 |

\* Specify length required by replacing the -000 with either -025 for 25 feet, -050 for 50 feet or -100 for 100 feet.

**TABLE 15 - CONDENSER MARINE (PIN 70=M) WATERBOX GASKETS**

**1 PASS - 150PSIG**

| <b>PIN 74</b> | <b>DESCRIPTION</b>           | <b>YORK PART NUMBER</b> | <b>SAP PART NUMBER</b> | <b>QUANTITY (CUN)</b> |
|---------------|------------------------------|-------------------------|------------------------|-----------------------|
| <b>A / H</b>  | Gasket, Channel 50 Durometer | 028-09551-*             | 3802                   | 6.5 ft.               |
|               | Gasket                       | 092-18049-000           | 1065022                | 2 ft.                 |

**2 PASS - 150PSIG**

| <b>PIN 74</b> | <b>DESCRIPTION</b>           | <b>YORK PART NUMBER</b> | <b>SAP PART NUMBER</b> | <b>QUANTITY (CUN)</b> |
|---------------|------------------------------|-------------------------|------------------------|-----------------------|
| <b>C / K</b>  | Gasket, Channel 50 Durometer | 028-09551-*             | 3802                   | 5.8 ft.               |
|               | Gasket                       | 092-18049-000           | 1065022                | 1 ft.                 |

**3 PASS - 150PSIG**

| <b>PIN 74</b> | <b>DESCRIPTION</b>           | <b>YORK PART NUMBER</b> | <b>SAP PART NUMBER</b> | <b>QUANTITY (CUN)</b> |
|---------------|------------------------------|-------------------------|------------------------|-----------------------|
| <b>G / P</b>  | Gasket, Channel 50 Durometer | 028-09551-*             | 3802                   | 5.8 ft.               |
|               | Gasket                       | 092-18049-000           | 1065022                | 1 ft.                 |

**1 PASS - 300PSIG**

| <b>PIN 74</b> | <b>DESCRIPTION</b> | <b>YORK PART NUMBER</b> | <b>SAP PART NUMBER</b> | <b>QUANTITY (CUN)</b> |
|---------------|--------------------|-------------------------|------------------------|-----------------------|
| <b>A / H</b>  | Gasket, Water Head | 028-03242-*             | 618585                 | 6.8 ft.               |
|               | Gasket             | 092-18049-000           | 1065022                | 2 ft.                 |

**2 PASS - 300PSIG**

| <b>PIN 74</b> | <b>DESCRIPTION</b>           | <b>YORK PART NUMBER</b> | <b>SAP PART NUMBER</b> | <b>QUANTITY (CUN)</b> |
|---------------|------------------------------|-------------------------|------------------------|-----------------------|
| <b>C / K</b>  | Gasket, Water Head           | 028-03242-*             | 618585                 | 3.4 ft.               |
|               | Gasket, Channel 50 Durometer | 028-09551-*             | 3802                   | 2.6 ft.               |
|               | Gasket                       | 092-18049-000           | 1065022                | 1 ft.                 |

**3 PASS - 300PSIG**

| <b>PIN 74</b> | <b>DESCRIPTION</b>           | <b>YORK PART NUMBER</b> | <b>SAP PART NUMBER</b> | <b>QUANTITY (CUN)</b> |
|---------------|------------------------------|-------------------------|------------------------|-----------------------|
| <b>G / P</b>  | Gasket, Water Head           | 028-03242-*             | 618585                 | 6.8 ft.               |
|               | Gasket, Channel 50 Durometer | 028-09551-*             | 3802                   | 2 ft.                 |
|               | Gasket                       | 092-18049-000           | 1065022                | 1 ft.                 |

\* Specify length required by replacing the -000 with either -025 for 25 feet, -050 for 50 feet or -100 for 100 feet.



**TABLE 16 - CONDENSER EPOXY COATED (PIN 71=C) MARINE (PIN 70=M) WATERBOX GASKETS**

**1 PASS - 150PSIG**

| <b>PIN 74</b> | <b>DESCRIPTION</b>           | <b>YORK PART NUMBER</b> | <b>SAP PART NUMBER</b> | <b>QUANTITY (CUN)</b> |
|---------------|------------------------------|-------------------------|------------------------|-----------------------|
| <b>A / H</b>  | Gasket, Channel 50 Durometer | 028-09551-*             | 3802                   | 7 ft.                 |
|               | Gasket                       | 092-18049-000           | 1065022                | 2 ft.                 |

**2 PASS - 150PSIG**

| <b>PIN 74</b> | <b>DESCRIPTION</b>           | <b>YORK PART NUMBER</b> | <b>SAP PART NUMBER</b> | <b>QUANTITY (CUN)</b> |
|---------------|------------------------------|-------------------------|------------------------|-----------------------|
| <b>C / K</b>  | Gasket, Channel 50 Durometer | 028-09551-*             | 3802                   | 5.8 ft.               |
|               | Gasket                       | 092-18049-000           | 1065022                | 1 ft.                 |

**3 PASS - 150PSIG**

| <b>PIN 74</b> | <b>DESCRIPTION</b>           | <b>YORK PART NUMBER</b> | <b>SAP PART NUMBER</b> | <b>QUANTITY (CUN)</b> |
|---------------|------------------------------|-------------------------|------------------------|-----------------------|
| <b>G / P</b>  | Gasket, Channel 50 Durometer | 028-09551-*             | 3802                   | 8.4 ft.               |
|               | Gasket                       | 092-18049-000           | 1065022                | 1 ft.                 |

**1 PASS - 300PSIG**

| <b>PIN 74</b> | <b>DESCRIPTION</b> | <b>YORK PART NUMBER</b> | <b>SAP PART NUMBER</b> | <b>QUANTITY (CUN)</b> |
|---------------|--------------------|-------------------------|------------------------|-----------------------|
| <b>A / H</b>  | Gasket, Water Head | 028-03242-*             | 618585                 | 6.8 ft.               |
|               | Gasket             | 092-18049-000           | 1065022                | 2 ft.                 |

**2 PASS - 300PSIG**

| <b>PIN 74</b> | <b>DESCRIPTION</b>           | <b>YORK PART NUMBER</b> | <b>SAP PART NUMBER</b> | <b>QUANTITY (CUN)</b> |
|---------------|------------------------------|-------------------------|------------------------|-----------------------|
| <b>C / K</b>  | Gasket, Water Head           | 028-03242-*             | 618585                 | 3.4 ft.               |
|               | Gasket, Channel 50 Durometer | 028-09551-*             | 3802                   | 2.6 ft.               |
|               | Gasket                       | 092-18049-000           | 1065022                | 1 ft.                 |

**3 PASS - 300PSIG**

| <b>PIN 74</b> | <b>DESCRIPTION</b>           | <b>YORK PART NUMBER</b> | <b>SAP PART NUMBER</b> | <b>QUANTITY (CUN)</b> |
|---------------|------------------------------|-------------------------|------------------------|-----------------------|
| <b>G / P</b>  | Gasket, Water Head           | 028-03242-*             | 618585                 | 6.8 ft.               |
|               | Gasket, Channel 50 Durometer | 028-09551-*             | 3802                   | 2 ft.                 |
|               | Gasket                       | 092-18049-000           | 1065022                | 1 ft.                 |

\* Specify length required by replacing the -000 with either -025 for 25 feet, -050 for 50 feet or -100 for 100 feet.

**TABLE 17 - EVAPORATOR COMPACT (PIN 57=C) WATERBOX GASKETS**

**1 PASS - 150PSIG**

| PIN 61 | DESCRIPTION                  | YORK PART NUMBER | SAP PART NUMBER | QUANTITY (CUN) |
|--------|------------------------------|------------------|-----------------|----------------|
| A / H  | Gasket, Channel 50 Durometer | 028-09551-*      | 3802            | 12.5 ft.       |
|        | Gasket                       | 092-18049-000    | 1065022         | 2 ft.          |

**2 PASS - 150PSIG**

| PIN 61 | DESCRIPTION                  | YORK PART NUMBER | SAP PART NUMBER | QUANTITY (CUN) |
|--------|------------------------------|------------------|-----------------|----------------|
| C / K  | Gasket, Channel 50 Durometer | 028-09551-*      | 3802            | 14.5 ft.       |
|        | Gasket                       | 092-18049-000    | 1065022         | 1 ft.          |

**3 PASS - 150PSIG**

| PIN 61 | DESCRIPTION                  | YORK PART NUMBER | SAP PART NUMBER | QUANTITY (CUN) |
|--------|------------------------------|------------------|-----------------|----------------|
| G / P  | Gasket, Channel 50 Durometer | 028-09551-*      | 3802            | 16.5 ft.       |
|        | Gasket                       | 092-18049-000    | 1065022         | 1 ft.          |

**1 PASS - 300PSIG**

| PIN 61 | DESCRIPTION                  | YORK PART NUMBER | SAP PART NUMBER | QUANTITY (CUN) |
|--------|------------------------------|------------------|-----------------|----------------|
| A / H  | Gasket, Channel 50 Durometer | 028-09551-*      | 3802            | 12.6 ft.       |
|        | Gasket                       | 092-18049-000    | 1065022         | 2 ft.          |

**2 PASS - 300PSIG**

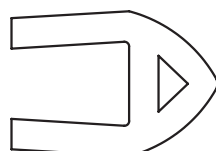
| PIN 61 | DESCRIPTION                  | YORK PART NUMBER | SAP PART NUMBER | QUANTITY (CUN) |
|--------|------------------------------|------------------|-----------------|----------------|
| C / K  | Gasket, Channel 50 Durometer | 028-09551-*      | 3802            | 14.5 ft.       |
|        | Gasket, Water Head           | 028-03242-*      | 618585          | 4.3 ft.        |
|        | Gasket                       | 092-18049-000    | 1065022         | 1 ft.          |

**3 PASS - 300PSIG**

| PIN 61 | DESCRIPTION                  | YORK PART NUMBER | SAP PART NUMBER | QUANTITY (CUN) |
|--------|------------------------------|------------------|-----------------|----------------|
| G / P  | Gasket, Channel 50 Durometer | 028-09551-*      | 3802            | 16.5 ft.       |
|        | Gasket, Water Head           | 028-03242-*      | 618585          | 4.3 ft.        |
|        | Gasket                       | 092-18049-000    | 1065022         | 1 ft.          |

\* Specify length required by replacing the -000 with either -025 for 25 feet, -050 for 50 feet or -100 for 100 feet.

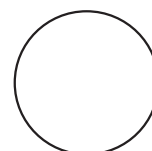
028-09551-\*



028-03242-\*



092-18049-\*



LD18955

**FIGURE 22 - EVAPORATOR WATERBOX GASKET**

**TABLE 18 - EVAPORATOR MARINE (PIN 57=M) WATERBOX GASKETS**

**1 PASS - 150PSIG**

| <b>PIN 61</b> | <b>DESCRIPTION</b>           | <b>YORK PART NUMBER</b> | <b>SAP PART NUMBER</b> | <b>QUANTITY (CUN)</b> |
|---------------|------------------------------|-------------------------|------------------------|-----------------------|
| <b>A / H</b>  | Gasket, Channel 50 Durometer | 028-09551-*             | 3802                   | 12.5 ft.              |
|               | Gasket                       | 092-18049-000           | 1065022                | 2 ft.                 |

**2 PASS - 150PSIG**

| <b>PIN 61</b> | <b>DESCRIPTION</b>           | <b>YORK PART NUMBER</b> | <b>SAP PART NUMBER</b> | <b>QUANTITY (CUN)</b> |
|---------------|------------------------------|-------------------------|------------------------|-----------------------|
| <b>C / K</b>  | Gasket, Channel 50 Durometer | 028-09551-*             | 3802                   | 14.5 ft.              |
|               | Gasket                       | 092-18049-000           | 1065022                | 1 ft.                 |

**3 PASS - 150PSIG**

| <b>PIN 61</b> | <b>DESCRIPTION</b>           | <b>YORK PART NUMBER</b> | <b>SAP PART NUMBER</b> | <b>QUANTITY (CUN)</b> |
|---------------|------------------------------|-------------------------|------------------------|-----------------------|
| <b>G / P</b>  | Gasket, Channel 50 Durometer | 028-09551-*             | 3802                   | 16.5 ft.              |
|               | Gasket                       | 092-18049-000           | 1065022                | 1 ft.                 |

**1 PASS - 300PSIG**

| <b>PIN 61</b> | <b>DESCRIPTION</b> | <b>YORK PART NUMBER</b> | <b>SAP PART NUMBER</b> | <b>QUANTITY (CUN)</b> |
|---------------|--------------------|-------------------------|------------------------|-----------------------|
| <b>A / H</b>  | Gasket, Water Head | 028-03242-*             | 618585                 | 8.2 ft.               |
|               | Gasket             | 092-18049-000           | 1065022                | 2 ft.                 |

**2 PASS - 300PSIG**

| <b>PIN 61</b> | <b>DESCRIPTION</b>           | <b>YORK PART NUMBER</b> | <b>SAP PART NUMBER</b> | <b>QUANTITY (CUN)</b> |
|---------------|------------------------------|-------------------------|------------------------|-----------------------|
| <b>C / K</b>  | Gasket, Water Head           | 028-03242-*             | 618585                 | 4 ft.                 |
|               | Gasket, Channel 50 Durometer | 028-09551-*             | 3802                   | 3.1 ft.               |
|               | Gasket                       | 092-18049-000           | 1065022                | 1 ft.                 |

**3 PASS - 300PSIG**

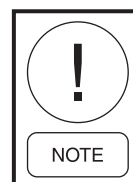
| <b>PIN 61</b> | <b>DESCRIPTION</b>           | <b>YORK PART NUMBER</b> | <b>SAP PART NUMBER</b> | <b>QUANTITY (CUN)</b> |
|---------------|------------------------------|-------------------------|------------------------|-----------------------|
| <b>G / P</b>  | Gasket, Water Head           | 028-03242-*             | 618585                 | 8.2 ft.               |
|               | Gasket, Channel 50 Durometer | 028-09551-*             | 3802                   | 2.3 ft.               |
|               | Gasket                       | 092-18049-000           | 1065022                | 1 ft.                 |

\* Specify length required by replacing the -000 with either -025 for 25 feet, -050 for 50 feet or -100 for 100 feet.

**TABLE 19 - CONDENSER TUBES (PIN 50=G)**

| CONDENSER<br>CODE<br>(PIN 7,8) | TUBE<br>QUANTITY<br>(Cond/<br>Sub-cooler) | 3/4" COPPER               |                           |                           | 3/4" COPPER NICKEL        |                            |                           |
|--------------------------------|-------------------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|----------------------------|---------------------------|
|                                |                                           | 0.025                     | 0.028                     | 0.035                     | 0.025                     | 0.028                      | 0.035                     |
|                                |                                           | MT #260                   | MT #261                   | MT #262                   | MT #162<br>(TITANIUM)     | MT #201                    | MT #203                   |
| <b>BB</b>                      | 140                                       | 007-10588-005<br>(679442) | 007-10588-823<br>(999241) | 007-10588-826<br>(999238) | 007-10512-801<br>(999235) | 007-10945-805<br>(999247)  | 007-10945-808<br>(999244) |
| <b>BC</b>                      | 160                                       |                           |                           |                           |                           |                            |                           |
| <b>BD</b>                      | 175                                       |                           |                           |                           |                           |                            |                           |
| <b>CB</b>                      | 140                                       | 007-10588-006<br>(679443) | 007-10588-824<br>(999240) | 007-10588-827<br>(999237) | 007-10512-802<br>(999234) | 007-10945-806<br>(999246)  | 007-10945-809<br>(999243) |
| <b>CC</b>                      | 160                                       |                           |                           |                           |                           |                            |                           |
| <b>CD</b>                      | 175                                       |                           |                           |                           |                           |                            |                           |
| <b>DB</b>                      | 140                                       | 007-10588-007<br>(679444) | 007-10588-825<br>(999239) | 007-10588-828<br>(999236) | 007-10512-803<br>(999233) | 007-10945-807<br>(999245)  | 007-10945-810<br>(999242) |
| <b>DC</b>                      | 160                                       |                           |                           |                           |                           |                            |                           |
| <b>DD</b>                      | 175                                       |                           |                           |                           |                           |                            |                           |
| <b>MB</b>                      | 162                                       | 007-10589-001<br>(728513) | 007-10589-015<br>(986545) | 007-10589-019<br>(898063) | -                         | 007-10495-001<br>(1035858) | 007-10495-003<br>(986543) |
| <b>MC</b>                      | 191                                       |                           |                           |                           |                           |                            |                           |
| <b>MD</b>                      | 211                                       |                           |                           |                           |                           |                            |                           |
| <b>ME</b>                      | 248                                       | 007-10589-002<br>(728514) | 007-10589-016<br>(986546) | 007-10589-020<br>(986549) | -                         | 007-10495-002<br>(1035825) | 007-10495-004<br>(986544) |
| <b>NB</b>                      | 162                                       |                           |                           |                           |                           |                            |                           |
| <b>NC</b>                      | 191                                       |                           |                           |                           |                           |                            |                           |
| <b>ND</b>                      | 211                                       |                           |                           |                           |                           |                            |                           |
| <b>NE</b>                      | 248                                       |                           |                           |                           |                           |                            |                           |

| CONDENSER<br>CODE<br>(PIN 7,8) | TUBE<br>QUANTITY<br>(Cond/<br>Sub-cooler) | 1" COPPER                 |         |         |
|--------------------------------|-------------------------------------------|---------------------------|---------|---------|
|                                |                                           | 0.025                     | 0.028   | 0.035   |
|                                |                                           | MT #266/260               | MT #261 | MT #262 |
| <b>M2</b>                      | 72                                        | 007-10589-003<br>(728515) | -       | -       |
|                                | 18                                        | 007-10589-001<br>(728513) | -       | -       |
| <b>M3</b>                      | 90                                        | 007-10589-003<br>(728515) | -       | -       |
|                                | 18                                        | 007-10589-001<br>(728513) | -       | -       |
| <b>M4</b>                      | 107                                       | 007-10589-003<br>(728515) | -       | -       |
|                                | 18                                        | 007-10589-001<br>(728513) | -       | -       |
| <b>M5</b>                      | 123                                       | 007-10589-003<br>(728515) | -       | -       |
|                                | 18                                        | 007-10589-001<br>(728513) | -       | -       |
| <b>N2</b>                      | 72                                        | 007-10589-004<br>(728516) | -       | -       |
|                                | 18                                        | 007-10589-002<br>(728514) | -       | -       |
| <b>N3</b>                      | 90                                        | 007-10589-004<br>(728516) | -       | -       |
|                                | 18                                        | 007-10589-002<br>(728514) | -       | -       |
| <b>N4</b>                      | 107                                       | 007-10589-004<br>(728516) | -       | -       |
|                                | 18                                        | 007-10589-002<br>(728514) | -       | -       |
| <b>N5</b>                      | 123                                       | 007-10589-004<br>(728516) | -       | -       |
|                                | 18                                        | 007-10589-002<br>(728514) | -       | -       |



*When replacing tubes, refer to the PIN structure (PIN50) to identify the vessel specific codes.*

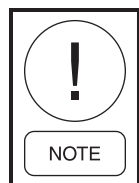
*See PIN structure (PIN 7, 8) and (PINs 67-69) to identify the specific condenser tubes.*

**NOTE:** YORK part number is identified by using xxx-xxxxx-xxx, the SAP part number is identified within the parenthesis.

**TABLE 20 - CONDENSER TUBES (PIN 50=A/E)**

| CONDENS-<br>ER CODE<br>(PIN 7,8) | TUBE<br>QUANTITY<br>(COND /<br>SUB-COOL-<br>ER) | 3/4" COPPER               |                            |                            | 3/4" COPPER NICKEL         |                            | 3/4"<br>TITANIUM           |  |
|----------------------------------|-------------------------------------------------|---------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|--|
|                                  |                                                 | 0.025                     | 0.028                      | 0.035                      | 0.028                      | 0.035                      | 0.025                      |  |
|                                  |                                                 | MT #260                   | MT #261                    | MT #262                    | MT #201                    | MT #203                    | MT #2162                   |  |
| BB                               | 140                                             | 007-10589-005<br>(728517) | 007-10589-023<br>(1035845) | 007-10589-026<br>(1035848) | 007-10495-005<br>(1035826) | 007-10495-008<br>(1035829) | 007-10513-001<br>(1035842) |  |
| BC                               | 160                                             |                           |                            |                            |                            |                            |                            |  |
| BD                               | 175                                             |                           |                            |                            |                            |                            |                            |  |
| CB                               | 140                                             | 007-10589-006<br>(728518) | 007-10589-024<br>(1035846) | 007-10589-027<br>(1035849) | 007-10495-006<br>(1035827) | 007-10495-009<br>(1035830) | 007-10513-002<br>(1035843) |  |
| CC                               | 160                                             |                           |                            |                            |                            |                            |                            |  |
| CD                               | 175                                             |                           |                            |                            |                            |                            |                            |  |
| DB                               | 140                                             | 007-10589-007<br>(728519) | 007-10589-025<br>(1035847) | 007-10589-028<br>(1035850) | 007-10495-007<br>(1035828) | 007-10495-010<br>(1035841) | 007-10513-003<br>(1035844) |  |
| DC                               | 160                                             |                           |                            |                            |                            |                            |                            |  |
| DD                               | 175                                             |                           |                            |                            |                            |                            |                            |  |
| MB                               | 162                                             | 007-10589-001<br>(728513) | 007-10589-015<br>(986545)  | 007-10589-026<br>(1035848) | 007-10495-001<br>(1035824) | 007-10495-003<br>(986543)  | -                          |  |
| MC                               | 191                                             |                           |                            | 007-10589-027<br>(1035849) | 007-10495-002<br>(1035825) |                            |                            |  |
| MD                               | 211                                             |                           |                            |                            |                            |                            |                            |  |
| ME                               | 248                                             |                           |                            |                            |                            |                            |                            |  |
| NB                               | 162                                             | 007-10589-002<br>(728514) | 007-10589-016<br>(986546)  | 007-10589-027<br>(1035849) | 007-10495-002<br>(1035825) | 007-10495-004<br>(986544)  | -                          |  |
| NC                               | 191                                             |                           |                            | 007-10589-027<br>(1035849) |                            |                            |                            |  |
| ND                               | 211                                             |                           |                            |                            |                            |                            |                            |  |
| NE                               | 248                                             |                           |                            |                            |                            |                            |                            |  |

**NOTE:** YORK part number is identified by using xxx-xxxxx-xxx, the SAP part number is identified within the parenthesis.



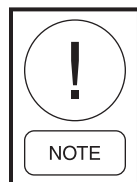
***When replacing tubes, refer to the PIN structure (PIN 50) to identify the vessel specific codes.***

***See PIN structure (PIN 7, 8) and (PINs 67-69) to identify the specific condenser tubes.***

**TABLE 20 (CONT'D) - CONDENSER TUBES (PIN 50=A/E)**

| CONDENSER<br>CODE<br>(PIN 7,8) | TUBE<br>QUANTITY<br>(COND/<br>SUB-COOLER) | 1" COPPER                 |                           |                           |
|--------------------------------|-------------------------------------------|---------------------------|---------------------------|---------------------------|
|                                |                                           | 0.025                     | 0.028                     | 0.035                     |
|                                |                                           | MT #266                   | MT #267                   | MT #268                   |
| <b>M2</b>                      | 72                                        | 007-10589-003<br>(728515) | 007-10589-017<br>(986547) | 007-10589-021<br>(898062) |
|                                | 18                                        | 007-10589-001<br>(728513) | 007-10589-015<br>(986545) | 007-10589-019<br>(898063) |
| <b>M3</b>                      | 90                                        | 007-10589-003<br>(728515) | 007-10589-017<br>(986547) | 007-10589-021<br>(898062) |
|                                | 18                                        | 007-10589-001<br>(728513) | 007-10589-015<br>(986545) | 007-10589-019<br>(898063) |
| <b>M4</b>                      | 107                                       | 007-10589-003<br>(728515) | 007-10589-017<br>(986547) | 007-10589-021<br>(898062) |
|                                | 18                                        | 007-10589-001<br>(728513) | 007-10589-015<br>(986545) | 007-10589-019<br>(898063) |
| <b>M5</b>                      | 123                                       | 007-10589-003<br>(728515) | 007-10589-017<br>(986547) | 007-10589-021<br>(898062) |
|                                | 18                                        | 007-10589-001<br>(728513) | 007-10589-015<br>(986545) | 007-10589-019<br>(898063) |
| <b>N2</b>                      | 72                                        | 007-10589-004<br>(728516) | 007-10589-018<br>(986548) | 007-10589-022<br>(986550) |
|                                | 18                                        | 007-10589-002<br>(728514) | 007-10589-016<br>(986546) | 007-10589-020<br>(986549) |
| <b>N3</b>                      | 90                                        | 007-10589-004<br>(728516) | 007-10589-018<br>(986548) | 007-10589-022<br>(986550) |
|                                | 18                                        | 007-10589-002<br>(728514) | 007-10589-016<br>(986546) | 007-10589-020<br>(986549) |
| <b>N4</b>                      | 107                                       | 007-10589-004<br>(728516) | 007-10589-018<br>(986548) | 007-10589-022<br>(986550) |
|                                | 18                                        | 007-10589-002<br>(728514) | 007-10589-016<br>(986546) | 007-10589-020<br>(986549) |
| <b>N5</b>                      | 123                                       | 007-10589-004<br>(728516) | 007-10589-018<br>(986548) | 007-10589-022<br>(986550) |
|                                | 18                                        | 007-10589-002<br>(728514) | 007-10589-016<br>(986546) | 007-10589-020<br>(986549) |

**NOTE:** YORK part number is identified by using xxx-xxxxx-xxx, the SAP part number is identified within the parenthesis.



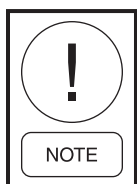
***When replacing tubes, refer to the PIN structure (PIN 50) to identify the vessel specific codes.***

***See PIN structure (PIN 7, 8) and (PINs 67-69) to identify the specific condenser tubes.***

**TABLE 21 - EVAPORATOR TUBES (PIN 50=G)**

| EVAPORATOR<br>CODE (PIN<br>7,8) | TUBE<br>QUANTITY | 3/4" COPPER               |                           |                           | 3/4" COPPER NICKEL |         |         |
|---------------------------------|------------------|---------------------------|---------------------------|---------------------------|--------------------|---------|---------|
|                                 |                  | 0.025                     | 0.028                     | 0.035                     | 0.025              | 0.028   | 0.035   |
|                                 |                  | MT #260                   | MT #261                   | MT #262                   | MT #162            | MT #201 | MT #203 |
| <b>BB</b>                       | 120              | 007W10595Y005<br>(679240) | 007W10595Y823<br>(999214) | 007W10595Y826<br>(999211) | -                  | -       | -       |
| <b>BC</b>                       | 140              |                           |                           |                           |                    |         |         |
| <b>BD</b>                       | 161              |                           |                           |                           |                    |         |         |
| <b>CB</b>                       | 120              | 007W10595Y006<br>(679241) | 007W10595Y824<br>(999213) | 007W10595Y827<br>(999200) | -                  | -       | -       |
| <b>CC</b>                       | 140              |                           |                           |                           |                    |         |         |
| <b>CD</b>                       | 161              |                           |                           |                           |                    |         |         |
| <b>DB</b>                       | 120              | 007W10595Y007<br>(679242) | 007W10595Y825<br>(999212) | 007W10595Y828<br>(999199) | -                  | -       | -       |
| <b>DC</b>                       | 140              |                           |                           |                           |                    |         |         |
| <b>DD</b>                       | 161              |                           |                           |                           |                    |         |         |

**NOTE:** YORK part number is identified by using xxx-xxxxx-xxx, the SAP part number is identified within the parenthesis.



*When replacing tubes, refer to the PIN structure (PIN 50) to identify the vessel specific codes.*

*See PIN structure (PIN 5, 6) and (PINs 54-56) to identify the specific evaporator tubes.*

**TABLE 22 - EVAPORATOR TUBES (PIN 50=A/E)**

| EVAPORATOR<br>CODE<br>(PIN 7,8) | TUBE<br>QUANTITY | 3/4"                      |                            |                            | 1"                        |                           |                           |
|---------------------------------|------------------|---------------------------|----------------------------|----------------------------|---------------------------|---------------------------|---------------------------|
|                                 |                  | 0.025                     | 0.028                      | 0.035                      | 0.025                     | 0.028                     | 0.035                     |
|                                 |                  | MT #321                   | MT #322                    | MT #323                    | MT #326                   | MT #327                   | MT #328                   |
| <b>BB</b>                       | 120              | 007-10592-005<br>(728524) | 007-10592-023<br>(1035851) | 007-10592-026<br>(1035854) | -                         | -                         | -                         |
| <b>BC</b>                       | 140              |                           |                            |                            |                           |                           |                           |
| <b>BD</b>                       | 161              |                           |                            |                            |                           |                           |                           |
| <b>CB</b>                       | 120              | 007-10592-006<br>(728525) | 007-10592-024<br>(1035852) | 007-10592-027<br>(1035855) | -                         | -                         | -                         |
| <b>CC</b>                       | 140              |                           |                            |                            |                           |                           |                           |
| <b>CD</b>                       | 161              |                           |                            |                            |                           |                           |                           |
| <b>DB</b>                       | 120              | 007-10592-007<br>(728526) | 007-10592-025<br>(1035853) | 007-10592-028<br>(1035856) | -                         | -                         | -                         |
| <b>DC</b>                       | 140              |                           |                            |                            |                           |                           |                           |
| <b>DD</b>                       | 161              |                           |                            |                            |                           |                           |                           |
| <b>MB</b>                       | 160              | 007-10592-001<br>(728522) | 007-10592-015<br>(919472)  | 007-10592-019<br>(986554)  | -                         | -                         | -                         |
| <b>MC</b>                       | 200              |                           |                            |                            |                           |                           |                           |
| <b>MD</b>                       | 230              |                           |                            |                            |                           |                           |                           |
| <b>ME</b>                       | 260              |                           |                            |                            |                           |                           |                           |
| <b>NB</b>                       | 160              | 007-10592-002<br>(728523) | 007-10592-016<br>(986551)  | 007-10592-020<br>(986555)  | -                         | -                         | -                         |
| <b>NC</b>                       | 200              |                           |                            |                            |                           |                           |                           |
| <b>ND</b>                       | 230              |                           |                            |                            |                           |                           |                           |
| <b>NE</b>                       | 260              |                           |                            |                            |                           |                           |                           |
| <b>M2</b>                       | 80               | -                         | -                          | -                          | 007-10592-003<br>(719030) | 007-10592-017<br>(986552) | 007-10592-021<br>(986556) |
| <b>M3</b>                       | 95               |                           |                            |                            |                           |                           |                           |
| <b>M4</b>                       | 110              |                           |                            |                            |                           |                           |                           |
| <b>M5</b>                       | 129              |                           |                            |                            |                           |                           |                           |
| <b>N2</b>                       | 80               | -                         | -                          | -                          | 007-10592-004<br>(719023) | 007-10592-018<br>(986553) | 007-10592-022<br>(986557) |
| <b>N3</b>                       | 95               |                           |                            |                            |                           |                           |                           |
| <b>N4</b>                       | 110              |                           |                            |                            |                           |                           |                           |
| <b>N5</b>                       | 129              |                           |                            |                            |                           |                           |                           |

**NOTE:** YORK part number is identified by using xxx-xxxxx-xxx, the SAP part number is identified within the parenthesis.

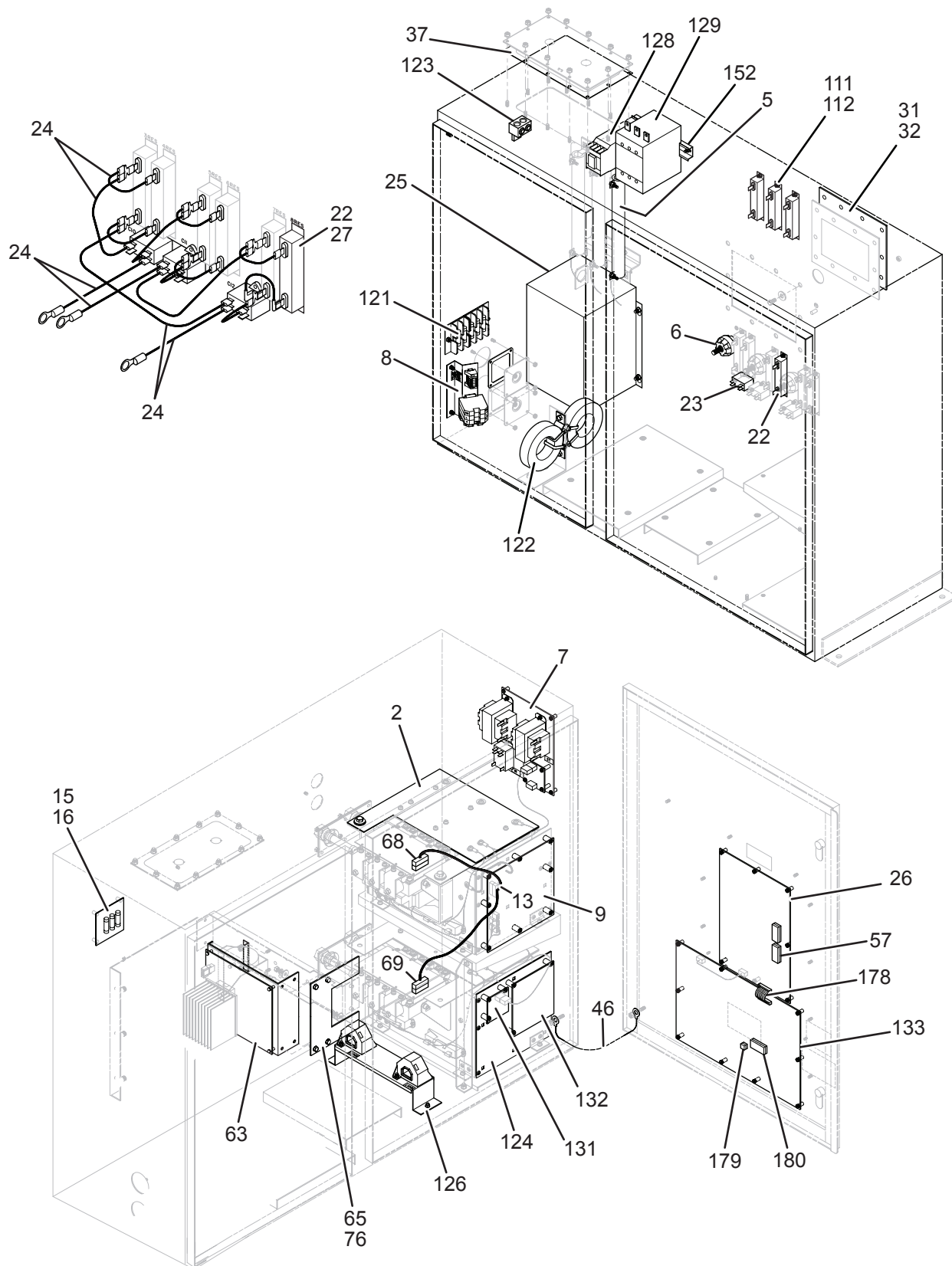


**TABLE 23 - VSD SINGLE SYSTEM FRAME B (PIN 20 & 21 = 50) (COMMON)**

| ITEM | DESCRIPTION                      | PART NUMBER   | SAP     | QUANTITY | FIGURE |
|------|----------------------------------|---------------|---------|----------|--------|
| 2    | Power Assy 292/351 Hp Nema 4     | 371-02769-101 | 772149  | 1        | 23     |
| 3    | Fan Assy                         | 371-03715-342 | 772262  | 1        | 24     |
| 4    | Trans Mtg Assy                   | 371-02767-357 | 772116  | 1        | 24     |
| 5    | Resistor                         | 371-02767-344 | 772111  | 1        | 23,25  |
| 6    | Standoff                         | 371-02767-366 | 772119  | 3        | 23     |
| 7    | Plate Mtg Transformer/Relay      | 371-02767-373 | 772122  | 1        | 23     |
| 8    | Terminal Strip Assy              | 371-05623-375 | 916032  | 1        | 23     |
| 9    | Control Trigger Board            | 031-02060-002 | 63166   | 1        | 23     |
| 10   | Harness, Wiring                  | 571-05625-261 | 916052  | 1        | 24,25  |
| 11   | Wiring Power                     | 571-02767-206 | 806902  | 1        | 25     |
| 12   | Cable Assy 2Tb To VSD Logic(J16) | 571-05623-274 | 1060768 | 1        | 24     |
| 13   | Cable Trig To Gate Driver        | 571-02767-251 | 806904  | 1        | 23     |
| 15   | Control Voltage                  | 031-02453-000 | 743895  | 1        | 23     |
| 16   | Fuse, Semi Conductor             | 025-38523-000 | 739590  | 3        | 23     |
| 19   | Kit Circuit Breaker              | 024-38125-000 | 1088783 | 1        | 24,25  |
| 21   | Inductor Viper 424/351           | 025-41692-000 | 740002  | 1        | 25     |
| 22   | Resistor, Power Wirewound        | 025-35953-000 | 117824  | 1        | 23     |
| 23   | Capacitor Dv/Dt Network          | 025-39806-000 | 251765  | 3        | 23     |
| 24   | Wiring Dvdt Network              | 571-02767-211 | 806903  | 1        | 23     |
| 25   | Transformer 3Kva, 380/400/415    | 025-32983-000 | 117599  | 1        | 23     |
| 26   | Control, VSD Logic Board         | 031-02506-102 | 988651  | 1        | 23     |
| 27   | Thermal Pad, Resistor, " Wide    | 028-15299-000 | 742121  | 6        | 23     |
| 28   | Clamp Tube 1" Od, Vinyl          | 021-30744-000 | 730644  | 1        | 26     |
| 30   | Clamp Tube 3/4 Od, Vinyl         | 021-18001-000 | 730126  | 1        | 26     |
| 31   | Gasket Cover                     | 028-15340-000 | 742132  | 1        | 23     |
| 32   | Cover Plate                      | 371-05627-331 | 916038  | 1        | 23     |
| 37   | Gasket Cover Plate Frick         | 028-15368-000 | 742138  | 1        | 23     |
| 43   | Fitting, Hose, Straight,         | 023-20286-000 | 733194  | 2        | 26     |
| 44   | Tube Plastic, Polyurethane       | 028-14439-000 | 741873  | 3.5'     | 26     |
| 45   | Clamp Hose, Screw Head, 5/16"    | 021-17547-000 | 730066  | 4        | 26     |
| 46   | Strap Grounding                  | 525-32508-001 | 806677  | 2        | 23,24  |
| 57   | Flash Control VSD                | 031-02547-102 | 913752  | 1        | 23     |
| 63   | Control Inverter 50/60 Hz        | 371-02202-101 | 771609  | 1        | 23     |
| 65   | Bracket Inverter Mounting        | 071-03700-300 | 748630  | 1        | 23     |
| 68   | Cable Gate Driver To Logic       | 571-02767-281 | 124157  | 1        | 23,24  |
| 69   | Cable Shielded Cable Gate Dr     | 571-02768-221 | 806911  | 1        | 23,24  |
| 76   | Cable Shielded Cable             | 571-05192-201 | 807092  | 1        | 23,24  |
| 77   | Cable 519 Shielded Cables        | 571-02768-271 | 806913  | 1        | 24     |
| 78   | Cable 519 Shielded Cables        | 571-02768-272 | 806914  | 1        | 24     |
| 111  | Resistor, 400 Ohm, 100W          | 025-46898-000 | -       | 3        | 23     |
| 112  | EMI Harness                      | 571-05628-261 | -       | 1        | 23     |

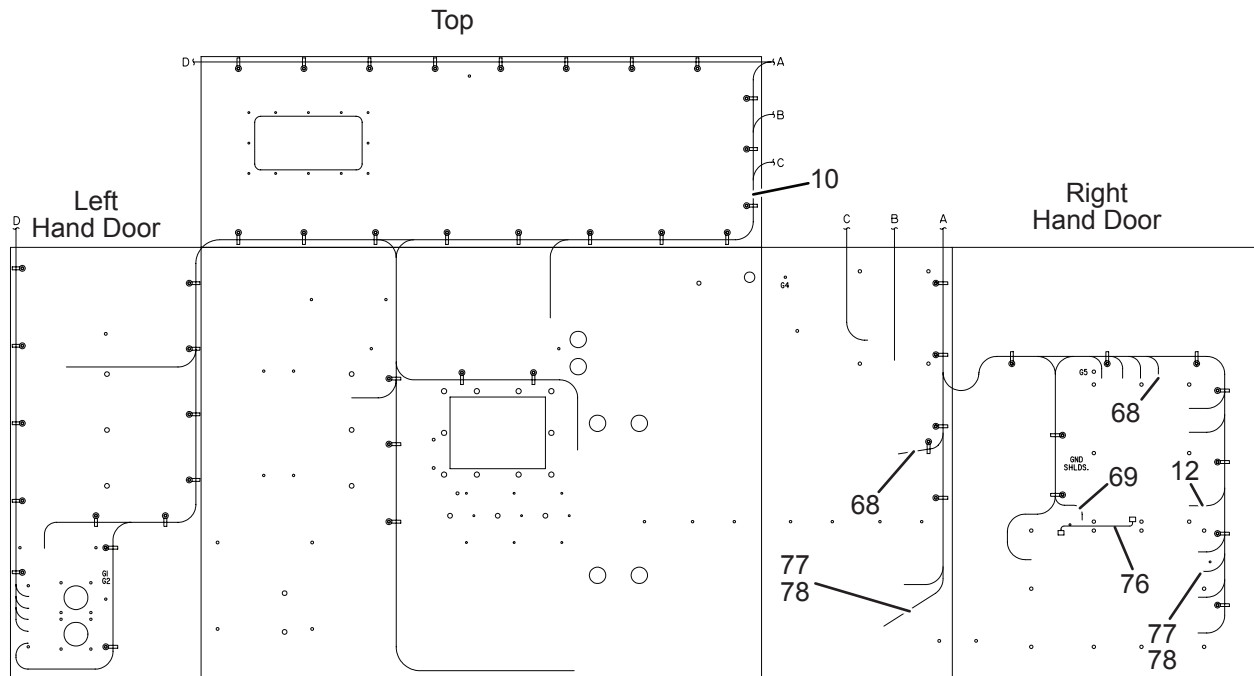
**TABLE 24 - VSD SINGLE SYSTEM FRAME B (PIN 20 & 21 = 50) (MODEL SPECIFIC)**

| ITEM | DESCRIPTION                            | WITHOUT FILTER |        | WITH FILTER   |        | FIGURE |
|------|----------------------------------------|----------------|--------|---------------|--------|--------|
|      |                                        | PART NUMBER    | SAP    | PART NUMBER   | SAP    |        |
| 121  | Fuse Assy                              | 371-05621-379  | 916023 | 371-05621-379 | 916023 | 23     |
| 122  | Trans Input Current 351 Hp VSD         | -              | -      | 371-02767-347 | 772112 | 23     |
| 123  | Lug Elec Double Barrel                 | 025-35173-000  | 117722 | 025-35173-000 | 117722 | 23     |
| 124  | Power Assy Harmonic Filter             | -              | -      | 371-02768-101 | 772133 | 23     |
| 125  | Trap High Freq Drive                   | -              | -      | 371-02768-349 | 772139 | 24     |
| 126  | Filter Output Assy Ct                  | -              | -      | 371-02767-352 | 772114 | 23     |
| 127  | Inductor Harmonic Filter 351Hp         | -              | -      | 025-35177-000 | 739145 | 25     |
| 128  | Contacto 3 Pole 32A 600 Vac            | -              | -      | 024-30985-000 | 735841 | 23     |
| 129  | Contacto 3 Pole 125A 600               | -              | -      | 024-35434-000 | 736286 | 23     |
| 130  | Manifold Distr Drive                   | 023-21710-000  | 440566 | 023-20822-000 | 733338 | 26     |
| 131  | Control Tme Bus Isolator               | -              | -      | 031-01624-000 | 743779 | 23     |
| 132  | Control IEEE-519                       | -              | -      | 031-02022-000 | 65064  | 23     |
| 133  | Control IEEE 519 Logic Board           | -              | -      | 031-02932-031 | 744205 | 23     |
| 134  | Fuseholder 1 Pole 400Amp 1000V         | -              | -      | 025-30993-000 | 738535 | 25     |
| 135  | Fuse, Semiconductor 150A               | -              | -      | 025-32581-000 | 738746 | 25     |
| 136  | Wiring 519 Power Drive                 | -              | -      | 571-02768-201 | 806908 | 25     |
| 141  | Plug Rubber                            | 028-14499-000  | 741895 | -             | -      | 26     |
| 152  | Rail Contactor Mounting                | -              | -      | 071-02767-385 | 748556 | 23     |
| 157  | Fitting, Flare, 90 Deg, Brass          | 023-20284-000  | 692418 | 023-20284-000 | 692418 | 26     |
| 158  | Fitting, Hose, Straight, Nylon         | 023-20285-000  | 692417 | 023-20285-000 | 692417 | 26     |
| 159  | Tube Plastic, Polyurethane             | 028-14491-000  | 741890 | 028-14491-000 | 741890 | 26     |
| 160  | Clamp Hose 11/16 Min Dia               | 023-08856-000  | 617439 | 023-08856-000 | 617439 | 26     |
| 168  | Reservoir Cooling System 351           | 371-02767-361  | 772117 | 371-02767-361 | 772117 | 26     |
| 178  | Cable                                  | -              | -      | 031-01658-000 | 743799 | 23     |
| 179  | Prom Serial 02932 IEEE 519             | -              | -      | 031-02933-003 | 744213 | 23     |
| 180  | Eprom 519 Logic                        | -              | -      | 031-01633-007 | 743787 | 23     |
| 182  | Plate Cover 292/351                    | 371-03712-386  | 772250 | -             | -      | 26     |
| 183  | Gasket Pipe Seal 292/351               | 028-15039-000  | 741959 | -             | -      | 26     |
| 190  | Heat Exchanger Drive                   | 371-02767-389  | 772126 | 371-02767-389 | 772126 | 26     |
| 191  | Pump Up26-99F 115V 6H 1Ph 60Hz         | 026-33890-000  | 3590   | 026-33890-000 | 3590   | 26     |
| 192  | Elbow Screw Street 1/2 -               | 023-01689-000  | 617258 | 023-01689-000 | 617258 | 26     |
| 193  | Valve Boiler Drain 1/2 Npte            | 022-10090-000  | 692414 | 022-10090-000 | 692414 | 26     |
| 194  | Flange Set Scr Oval 1-1/2              | 023-20283-000  | 733193 | 023-20283-000 | 733193 | 26     |
| 195  | Connr, Conduit Flex Angle              | 025-31316-000  | 435091 | 025-31316-000 | 435091 | 26     |
| 196  | Conduit Flexible Id=1/2In Id=.571In Ps | 025-30473-000  | 618151 | 025-30473-000 | 618151 | 26     |
| 197  | Clamp Hose 2-5/8 Min Dia               | 021-19150-000  | 564227 | 021-19150-000 | 564227 | 26     |
| 198  | Bracket Clamp Fill Pipe VSD            | 071-02291-420  | 748189 | 071-02291-420 | 748189 | 26     |
| 199  | Nipple Pipe 1-1/2 Sch 40 X             | 023-18209-000  | 60695  | 023-18209-000 | 60695  | 26     |

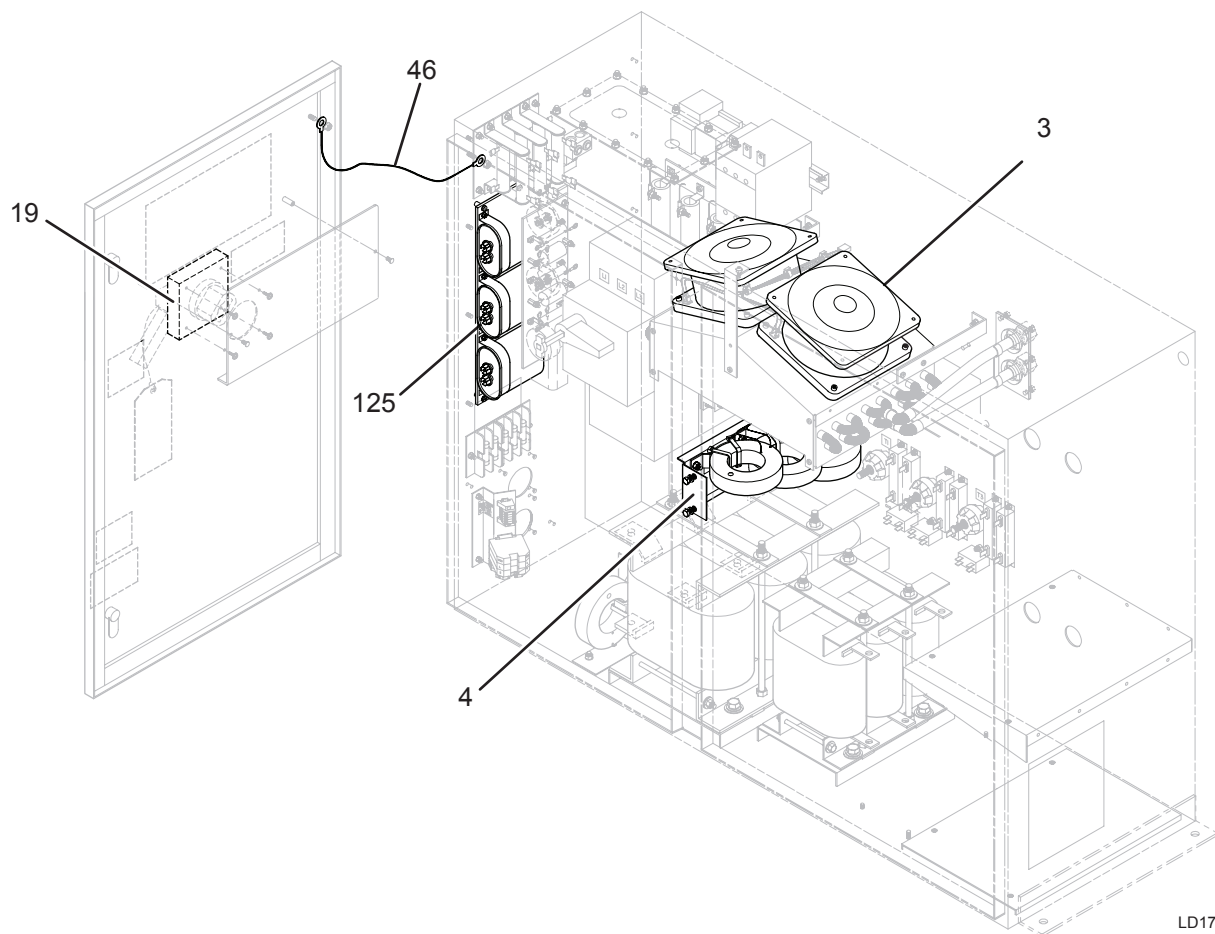


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**FIGURE 23 - VSD SINGLE SYSTEM FRAME B (PIN 20 & 21 = 50)**

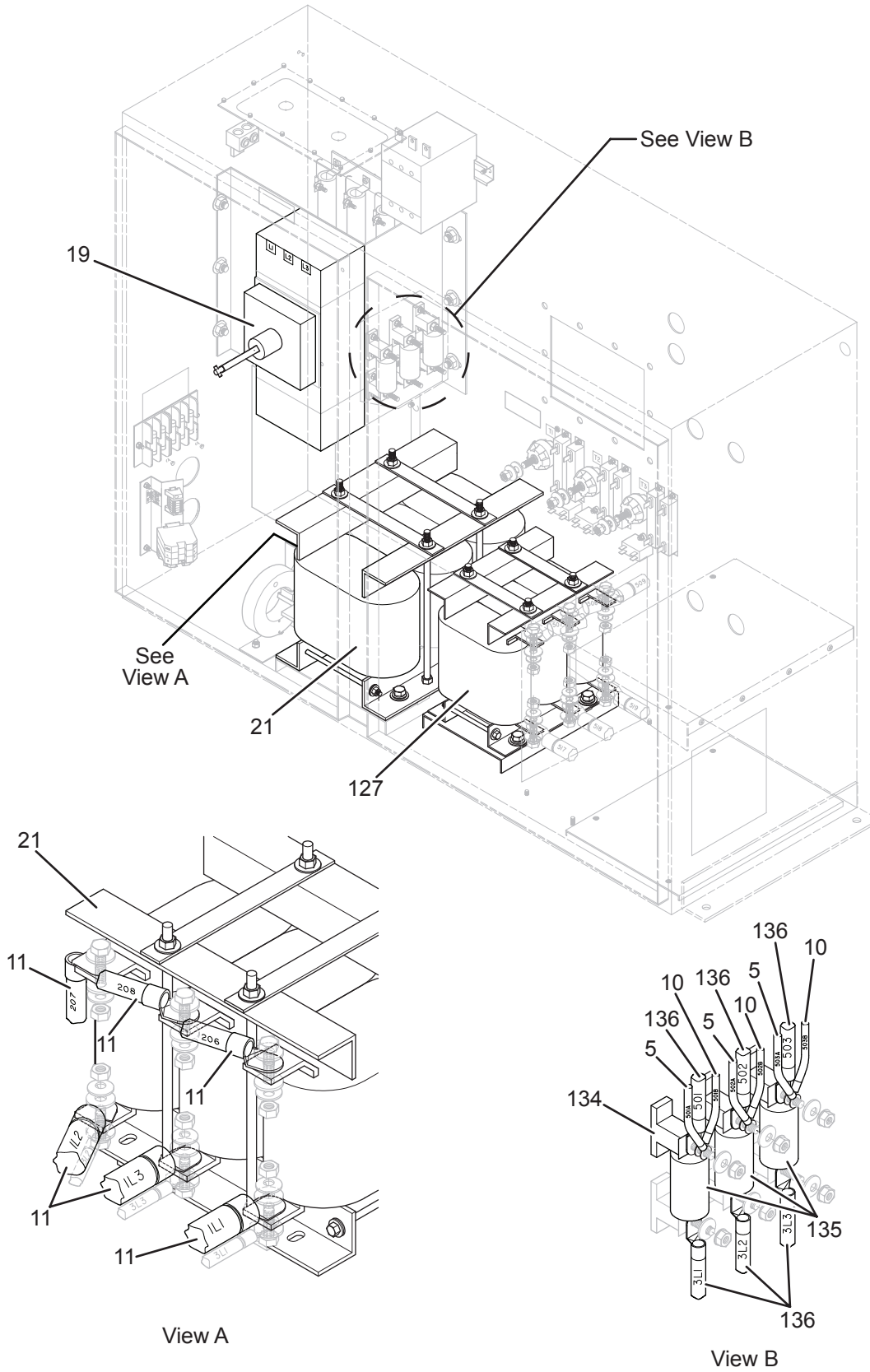


Interior View of Cabinet Shown With Wiring Harness Installed



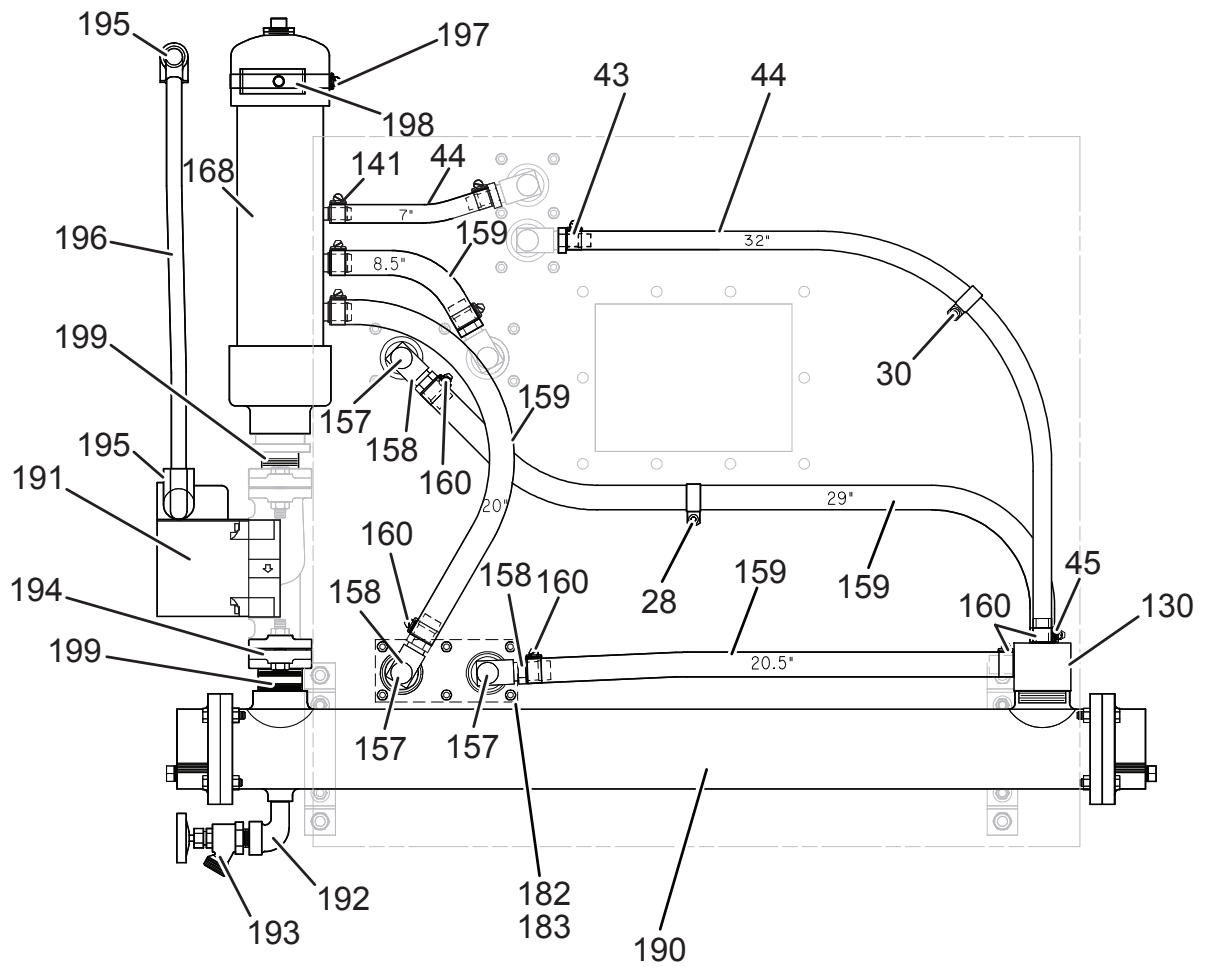
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**FIGURE 24 - VSD SINGLE SYSTEM FRAME B (PIN 20 & 21 = 50)**



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**FIGURE 25 - VSD SINGLE SYSTEM FRAME B (PIN 20 & 21 = 50)**



**FIGURE 26 - VSD SINGLE SYSTEM FRAME B (PIN 20 & 21 = 50)**

**TABLE 25 - VSD SINGLE SYSTEM FRAME B (COMMON)**

| ITEM | VOLTAGE<br>(PIN 20 & 21)   | DESCRIPTION                            | PART NUMBER   | SAP     | FIGURE |
|------|----------------------------|----------------------------------------|---------------|---------|--------|
| 1    | 17, 28, 40, 46, 65, 68     | Kit, Enclosure                         | 371-05623-301 | 916029  | 27,29  |
|      | 58                         |                                        | 371-06024-301 | 916048  |        |
| 2    | 17, 28, 40, 46, 65, 68     | Power Assy 292/351 Hp Nema 1           | 371-02769-100 | 772148  | 29     |
|      | 58                         | Power Assy 424 Hp Nema 1 575V          | 371-02769-110 | 772150  |        |
| 3    | 17, 28, 40, 46, 58         | Fan Assy Drive                         | 371-02767-342 | 772110  | 27     |
|      | 65, 68                     |                                        | 371-03700-342 | 772224  |        |
| 4    | 17, 28, 40, 46, 58, 65, 68 | Trans Mtg Assy Drive                   | 371-02767-357 | 772116  | 27     |
| 5    | 17, 28, 40, 46, 58, 65, 68 | Resistor Drive                         | 371-02767-344 | 772111  | 27,29  |
| 6    | 17, 28, 40, 46, 58, 65, 68 | Standoff Drive                         | 371-02767-366 | 772119  | 27     |
| 7    | 17, 28, 40, 46, 58, 65, 68 | Plate Mtg Transformer/Relay            | 371-02767-373 | 772122  | 29     |
| 8    | 17, 28, 40, 46, 58, 65, 68 | Terminal Strip Assy                    | 371-05623-375 | 916032  | 27     |
| 9    | 17, 28, 46                 | Control Trigger Board                  | 031-02060-001 | 743858  | 29     |
|      | 40, 65, 68                 |                                        | 031-02060-002 | 63166   |        |
|      | 58                         |                                        | 031-02060-003 | 743859  |        |
| 10   | 17, 28, 46                 | Harness, Wiring                        | 571-05623-261 | 916051  | 28     |
|      | 40, 65, 68                 |                                        | 571-05625-261 | 916052  |        |
|      | 58                         |                                        | 571-06024-261 | 916053  |        |
| 11   | 17, 28, 40, 46, 65, 68     | Wiring, Power Drive                    | 571-02767-206 | 806902  | 28     |
|      | 58                         |                                        | 571-04881-206 | 807071  |        |
| 13   | 17, 28, 40, 46, 58, 65, 68 | Cable Trig To Gate Driver              | 571-02767-251 | 806904  | 29     |
| 14   | 17, 28, 40, 46, 58, 65, 68 | Reservoir Cooling System 351           | 371-02767-361 | 772117  | 30     |
| 16   | 17, 28, 40, 46, 58, 65, 68 | Heat Exchanger Drive                   | 371-02767-389 | 772126  | 30     |
| 17   | 17, 28, 40, 46, 58, 65, 68 | Pump Up26-99F 115V 6H 1Ph 60Hz         | 026-33890-000 | 3590    | 30     |
| 18   | 17, 28, 40, 46, 58, 65, 68 | Calibrated Circuit Breaker 400A        | 224-35428-000 | 769674  | 28     |
| 19   | 17, 28, 40, 46, 58, 65, 68 | Kit Circuit Breaker                    | 024-38125-000 | 1088783 | 27,28  |
| 20   | 17, 28, 40, 46, 58, 65, 68 | Control Voltage                        | 031-02453-000 | 743895  | 29     |
| 21   | 17, 28, 40, 46, 58, 65, 68 | Inductor 424/351                       | 025-41692-000 | 740002  | 28     |
| 22   | 17, 28, 40, 46, 58, 65, 68 | Resistor, Power Wirewound              | 025-35953-000 | 117824  | 27     |
| 23   | 17, 28, 40, 46, 58, 65, 68 | Capacitor Dv/Dt Network                | 025-39806-000 | 251765  | 27     |
| 24   | 17, 28, 40, 46, 65, 68     | Wiring DVDT Network                    | 571-02767-211 | 806903  | 27     |
|      | 58                         |                                        | 571-04881-211 | 807072  |        |
| 25   | 65, 68                     | Transformer 3Kva, 380/400/415          | 025-32983-000 | 117599  | 27     |
|      | 58                         | Transformer 3Kva, 600V                 | 025-40381-000 | 739812  |        |
| 26   | 17, 28, 40, 46, 65, 68     | Control, VSD Logic Board               | 031-02506-102 | 988651  | 29     |
|      | 58                         |                                        | 031-02506-103 | 1085013 |        |
| 27   | 17, 28, 40, 46, 58, 65, 68 | Elbow Screw Street 1/2 -               | 023-01689-000 | 617258  | 30     |
| 28   | 17, 28, 40, 46, 58, 65, 68 | Valve Boiler Drain 1/2 Npte            | 022-10090-000 | 692414  | 30     |
| 29   | 17, 28, 40, 46, 58, 65, 68 | Sealer, Pipe Thd Compound,             | 013-03487-000 | 729128  | 30     |
| 30   | 17, 28, 40, 46, 58, 65, 68 | Clamp Tube 3/4 Od, Vinyl               | 021-18001-000 | 730126  | 30     |
| 31   | 17, 28, 40, 46, 58, 65, 68 | Flange Set Scr Oval 1-1/2              | 023-20283-000 | 733193  | 30     |
| 32   | 17, 28, 40, 46, 58, 65, 68 | Connr, Conduit Flex Angle              | 025-31316-000 | 435091  | 30     |
| 33   | 17, 28, 40, 46, 58, 65, 68 | Conduit Flexible Id=1/2In Id=.571In Ps | 025-30473-000 | 618151  | 30     |
| 36   | 17, 28, 40, 46, 58, 65, 68 | Nipple Pipe 1-1/2 Sch 40 X             | 023-18209-000 | 60695   | 30     |
| 44   | 17, 28, 40, 46, 58, 65, 68 | Tube Plastic, Polyurethane             | 028-14439-000 | 741873  | 30     |



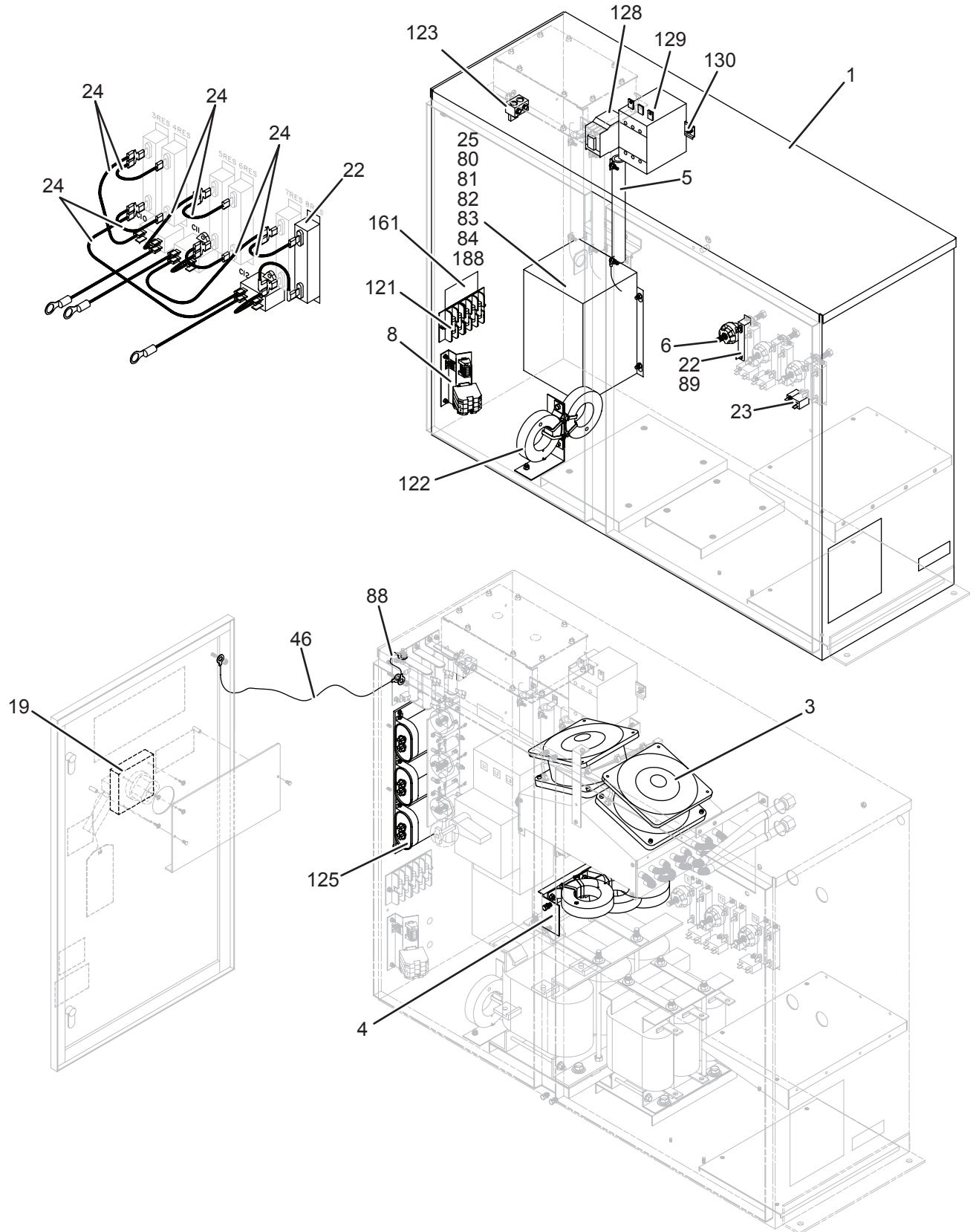
**TABLE 25 (CONT'D) - VSD SINGLE SYSTEM FRAME B (COMMON)**

| ITEM | VOLTAGE<br>(PIN 20 & 21)   | DESCRIPTION                       | PART NUMBER   | SAP     | FIGURE |
|------|----------------------------|-----------------------------------|---------------|---------|--------|
| 45   | 17, 28, 40, 46, 58, 65, 68 | Clamp Hose, Screw Head, 5/16"     | 021-17547-000 | 730066  | 29,30  |
| 46   | 17, 28, 40, 46, 58, 65, 68 | Strap Grounding                   | 525-32508-001 | 806677  | 27     |
| 59   | 17, 28, 40, 46, 58, 65, 68 | Eeprom, VSD Logic Board           | 031-03422-010 | 947512  | 29     |
| 61   | 17, 28, 40, 46, 58, 65, 68 | Tophat Retrofit 503 Drive         | 371-04144-311 | 772433  | 29     |
| 63   | 65, 68                     | Control Inverter 50/60 Hz         | 371-02202-101 | 771609  | 29     |
| 68   | 17, 28, 40, 46, 58, 65, 68 | Cable Gate Driver to Logic        | 571-02767-281 | 124157  | 29     |
| 69   | 17, 28, 40, 46, 65, 68     | Cable Shielded Cable Gate Dr      | 571-02768-221 | 806911  | 29     |
|      | 58                         |                                   | 571-04881-231 | 807074  |        |
| 80   | 17, 28, 40, 46, 58, 65, 68 | Ferr Splice Cap for use with      | 025-10434-000 | 737259  | 27     |
| 81   | 17, 28, 40, 46, 58, 65, 68 | Insr Elec for use with            | 025-10435-000 | 737260  | 27     |
| 82   | 58, 65, 68                 | Ferr Splice Cap for use with      | 025-10372-000 | 737258  | 27     |
| 83   | 58, 65, 68                 | Insr Elec for use with            | 025-10371-000 | 737257  | 27     |
| 84   | 17, 28, 40, 46, 58, 65, 68 | Bush Snap 7/8 Id Hole             | 025-12016-000 | 737325  | 27     |
| 88   | 17, 28, 40, 46, 58, 65, 68 | Strap Ground                      | 525-37839-001 | 806679  | 27     |
| 89   | 17, 28, 40, 46, 58, 65, 68 | Thermal Pad, Resistor             | 028-15299-000 | 742121  | 27     |
| 92   | 17, 28, 40, 46, 58, 65, 68 | Fuse, Semi Conductor              | 025-38523-000 | 739590  | 29     |
| 94   | 17, 28, 40, 46, 58, 65, 68 | Cable Assy 2Tb to VSD Logic (J16) | 571-05623-274 | 1060768 | *      |
| 95   | 17, 28, 40, 46, 58, 65, 68 | Cable Shielded Cable              | 571-05192-201 | 807092  | 29     |



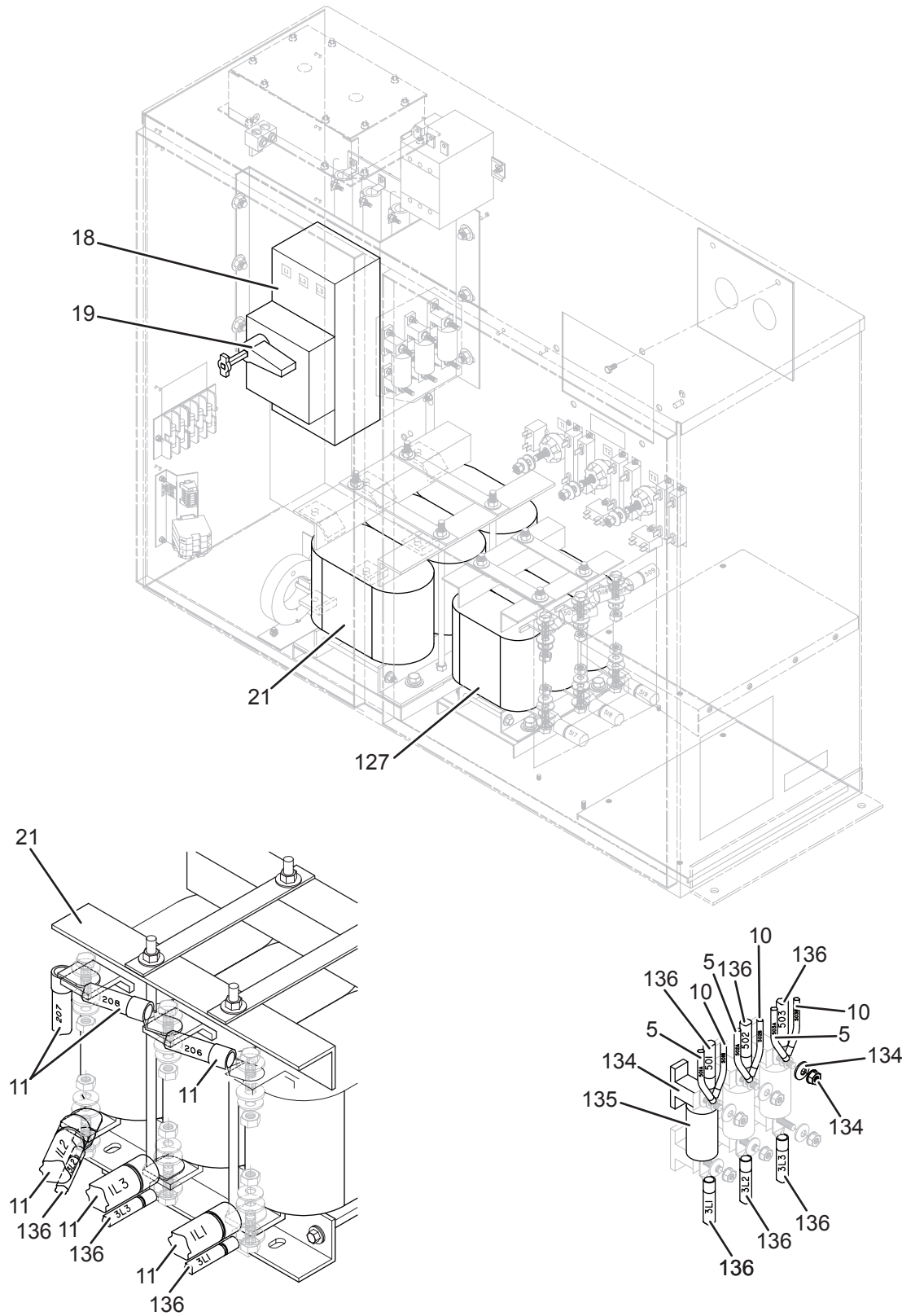
**TABLE 26 - VSD SINGLE SYSTEM FRAME B (MODEL SPECIFIC)**

| ITEM | VOLTAGE<br>(PIN 20 & 21)   | DESCRIPTION                       | WITHOUT FILTER |        | WITH FILTER   |        | FIGURE |
|------|----------------------------|-----------------------------------|----------------|--------|---------------|--------|--------|
|      |                            |                                   | PART NUMBER    | SAP    | PART NUMBER   | SAP    |        |
| 121  | 17, 28, 40, 46, 65, 68     | Fuse Assy                         | 371-05621-379  | 916023 | 371-05621-379 | 916023 | 27     |
|      | 58                         |                                   | 371-06024-379  | 916050 | 371-06024-379 | 916050 |        |
| 122  | 17, 28, 40, 46, 65, 68     | Trans Input Current<br>351 Hp VSD | -              | -      | 371-02767-347 | 772112 | 27     |
|      | 58                         |                                   | -              | -      | 371-04881-347 | 772781 |        |
| 123  | 17, 28, 40, 46, 58, 65, 68 | Lug Elec Double Barrel            | 025-35173-000  | 117722 | 025-35173-000 | 117722 | 27     |
| 124  | 17, 28, 40, 46, 58, 65, 68 | Power Assy Harmonic<br>Filter     | -              | -      | 371-02768-100 | 772132 | 29     |
| 125  | 17, 28, 40, 46, 58, 65, 68 | Trap High Freq Drive              | -              | -      | 371-02768-349 | 772139 | 27     |
| 126  | 17, 28, 40, 46, 58, 65, 68 | Filter Output Assy Ct             | -              | -      | 371-02767-352 | 772114 | 29     |
| 127  | 17, 28, 40, 46, 65, 68     | Inductor Harmonic Filter<br>351Hp | -              | -      | 025-35177-000 | 739145 | 28     |
|      | 58                         |                                   | -              | -      | 025-40374-000 | 739806 |        |
| 128  | 17, 28, 40, 46, 58, 65, 68 | Contacto 3 Pole 32A 600<br>Vac    | -              | -      | 024-30985-000 | 735841 | 27     |
| 129  | 17, 28, 40, 46, 58, 65, 68 | Contacto 3 Pole 125A 600          | -              | -      | 024-35434-000 | 736286 | 27     |
| 130  | 17, 28, 40, 46, 58, 65, 68 | Rail Contacto Mounting            | -              | -      | 071-02767-385 | 748556 | 27     |
| 131  | 17, 28, 40, 46, 58, 65, 68 | Control Tme Bus Isolator          | -              | -      | 031-01624-000 | 743779 | 29     |
| 132  | 17, 28, 40, 46, 65, 68     | Control IEEE-519                  | -              | -      | 031-02022-000 | 65064  | 29     |
|      | 58                         |                                   | -              | -      | 031-02022-001 | 743845 |        |
| 133  | 17, 28, 40, 46, 65, 68     | Control IEEE 519 Logic<br>Board   | -              | -      | 031-02932-031 | 744205 | 29     |
|      | 58                         |                                   | -              | -      | 031-02932-101 | 744210 |        |
| 134  | 17, 28, 40, 46, 58, 65, 68 | Fuseholder 1 Pole 400Amp<br>1000V | -              | -      | 025-30993-000 | 738535 | 28     |
| 135  | 17, 28, 40, 46, 65, 68     | Fuse, Semiconductor<br>150A,      | -              | -      | 025-32581-000 | 738746 | 28     |
|      | 58                         | Fuse, Semiconductor<br>160A,      | -              | -      | 025-40404-000 | 739823 |        |
| 136  | 17, 28, 40, 46, 65, 68     | Wiring 519 Power Drive            | -              | -      | 571-02768-201 | 806908 | 28     |
|      | 58                         | Wiring 424 519 Pwr                | -              | -      | 571-04881-201 | 807070 |        |
| 141  | 17, 28, 40, 46, 58, 65, 68 | Plug Rubber                       | 028-14499-000  | 741895 | -             | -      | 30     |
| 157  | 17, 28, 40, 46, 58, 65, 68 | Fitting, Flare, 90 Deg,<br>Brass  | 023-20284-000  | 692418 | 023-20284-000 | 692418 | 30     |
| 158  | 17, 28, 40, 46, 58, 65, 68 | Fitting, Hose, Straight,<br>Nylon | 023-20285-000  | 692417 | 023-20285-000 | 692417 | 30     |
| 159  | 17, 28, 40, 46, 58, 65, 68 | Tube Plastic, Polyurethane        | 028-14491-000  | 741890 | 028-14491-000 | 741890 | 30     |
| 160  | 17, 28, 40, 46, 58, 65, 68 | Clamp Hose 11/16 Min Dia          | 023-08856-000  | 617439 | 023-08856-000 | 617439 | 30     |
| 161  | 17, 28, 40, 46, 58, 65, 68 | Strip Marker (Fuse)               | 035-23304-000  | 916000 | 035-23304-000 | 916000 | 27     |
| 176  | 17, 28, 40, 46, 58, 65, 68 | Manifold Distribution             | -              | -      | 023-20822-000 | 733338 | 30     |
| 178  | 17, 28, 40, 46, 58, 65, 68 | Cable                             | -              | -      | 031-01658-000 | 743799 | 29     |
| 179  | 17, 28, 40, 46, 58, 65, 68 | Prom Serial 02932 IEEE<br>519     | -              | -      | 031-02933-003 | 744213 | 29     |
| 180  | 17, 28, 40, 46             | Eprom 519 Logic U42               | -              | -      | 031-01633-006 | 743786 | 29     |
|      | 65, 68                     |                                   | -              | -      | 031-01633-007 | 743787 |        |
|      | 58                         |                                   | -              | -      | 031-01633-008 | 743788 |        |
| 184  | 17, 28, 40, 46, 58, 65, 68 | Manifold Distribution             | 023-20842-000  | 733342 | -             | -      | 30     |
| 188  | 17, 28, 46                 | Transformer 1 3Kva,<br>240/480    | 025-31499-000  | 738608 | 025-31499-000 | 738608 | 27     |
|      | 40                         | Transformer 3Kva,<br>380/400/415  | 025-32983-000  | 117599 | 025-32983-000 | 117599 |        |
| 191  | 17, 28, 46, 65             | Flash Control VSD                 | 031-02547-102  | 913752 | 031-02547-102 | 913752 | 29     |
|      | 40, 68                     |                                   | 031-02547-105  | 913755 | 031-02547-105 | 913755 |        |



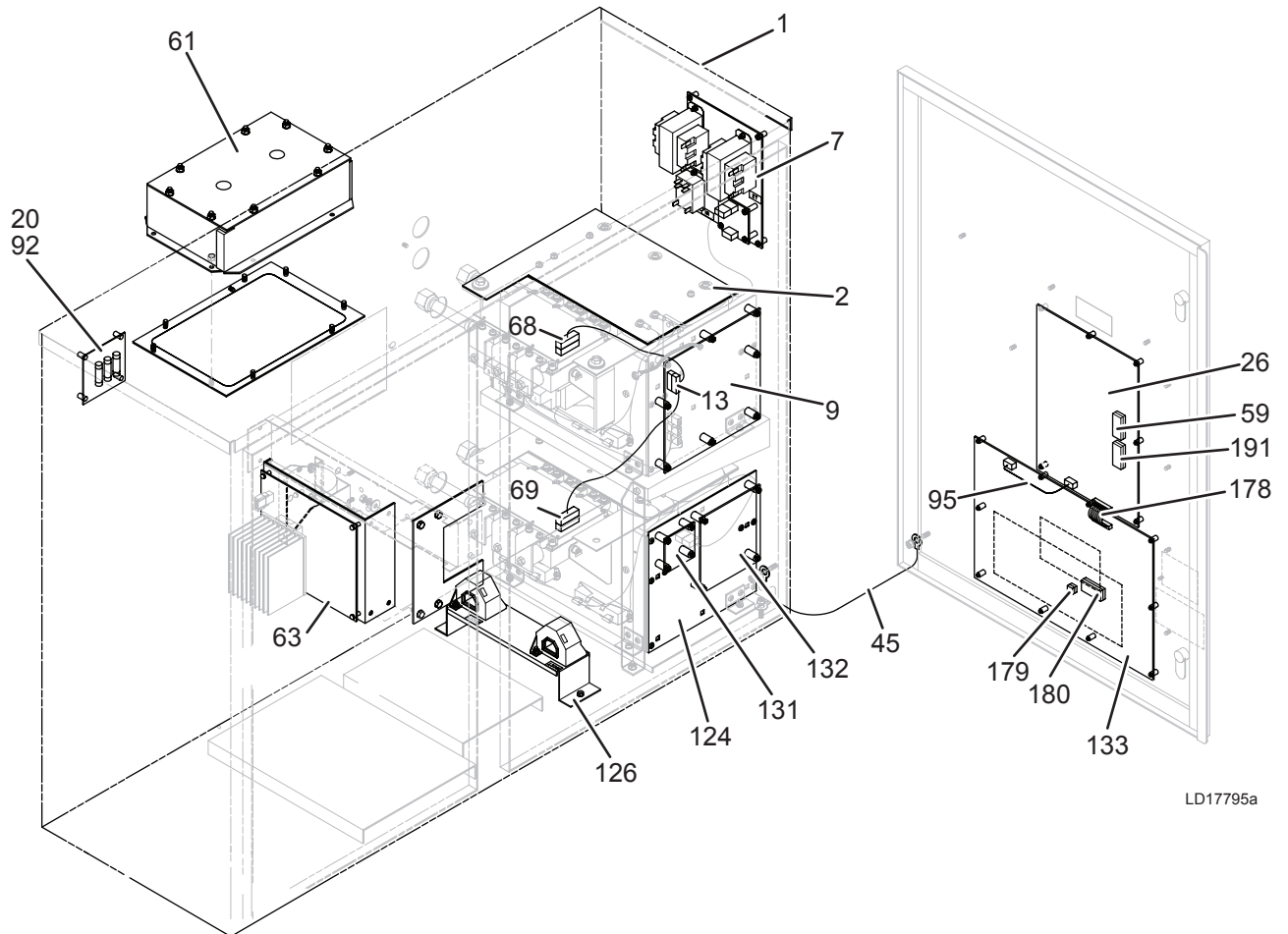
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**FIGURE 27 - VSD SINGLE SYSTEM FRAME B**



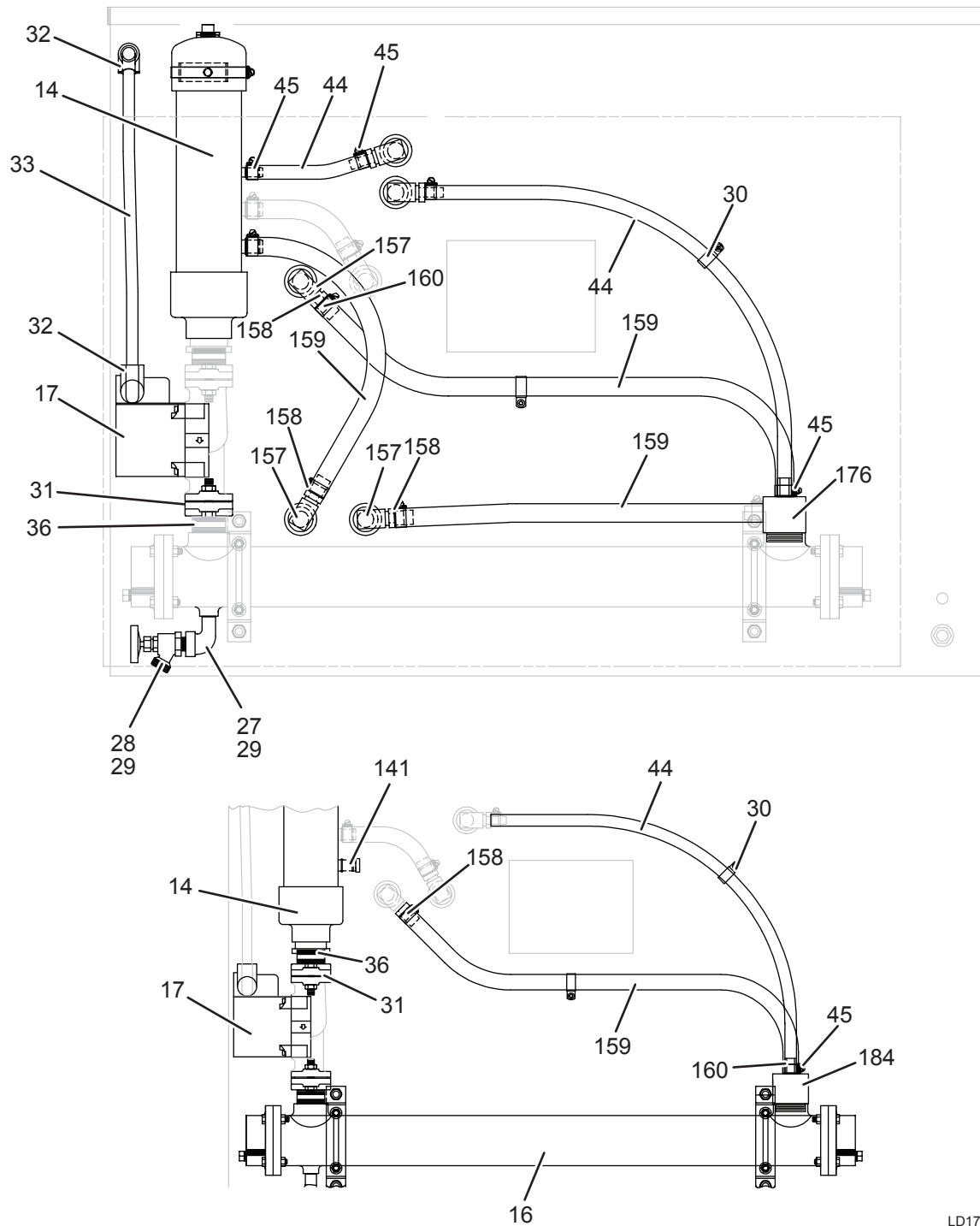
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**FIGURE 28 - VSD SINGLE SYSTEM FRAME B**



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**FIGURE 29 - VSD SINGLE SYSTEM FRAME B**



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**FIGURE 30 - VSD SINGLE SYSTEM FRAME B**

**TABLE 27 - VSD SINGLE SYSTEM FRAME D (PIN 20 & 21 = 50) (COMMON)**

| ITEM | DESCRIPTION                     | PART NUMBER   | SAP     | QUANTITY | FIGURE   |
|------|---------------------------------|---------------|---------|----------|----------|
| 1    | Kit Enclosure                   | 371-05627-301 | 995426  | 1        | 31       |
| 2    | Power Assy 503/419 Hp Nema 4    | 371-03787-101 | 772287  | 1        | 32       |
| 4    | Trans Mtg Assy Drive 503        | 371-03789-357 | 772339  | 1        | 31       |
| 5    | Support Coil Assy Drive         | 071-03789-331 | 748725  | 1        | 32       |
| 6    | Standoff, Drive 503Hp           | 371-03789-371 | 772343  | 3        | 31       |
| 7    | Lug Kit                         | 024-34027-000 | 736062  | 3        | 32       |
| 8    | Terminal Strip Assy             | 371-05623-375 | 916032  | 1        | 31       |
| 11   | Harness 503 Pwr Wire            | 571-03789-206 | 806949  | 1        | 32       |
| 12   | Cable                           | 571-03788-274 | 806948  | 1        | 33       |
| 13   | Cable 503 Trig To Gate          | 571-03789-251 | 806951  | 1        | 31,32,33 |
| 15   | Manifold Distr Drive            | 023-21710-000 | 440566  | 1        | 33       |
| 18   | Calibrated Cir.brkr 400 A       | 224-35428-000 | 769674  | 1        | 32       |
| 19   | Kit, Door Mtg.,503Hp Nema 4     | 024-35396-000 | 736281  | 1        | 32       |
| 21   | Inductor Drive 608/503          | 025-41693-000 | 641006  | 1        | 32       |
| 22   | Resistor, Power Wirewound       | 025-35953-000 | 117824  | 6        | 31       |
| 23   | Capacitor Dv/Dt Network         | 025-39806-000 | 251765  | 3        | 31       |
| 24   | Harness 503 Dvdt                | 571-03789-211 | 806950  | 1        | 31       |
| 25   | Control Voltage                 | 031-02453-000 | 743895  | 1        | 31       |
| 26   | Control, VSD Logic Board        | 031-02506-102 | 988651  | 1        | 31       |
| 30   | Cover Plate                     | 371-05627-331 | 916038  | 1        | 32       |
| 31   | Gasket Retrofit Cover           | 028-15340-000 | 742132  | 1        | 32       |
| 37   | Gasket Cover Plate Drive        | 028-15339-000 | 742131  | 1        | 32       |
| 39   | Trans Relay Drive 503 Hp        | 371-03789-373 | 772344  | 1        | 31       |
| 42   | Cover Plate, Trident Single VSD | 071-05627-329 | 1164033 | 1        | 32       |
| 56   | Gasket Control Panel Sys 3"     | 028-15338-000 | 742130  | 1        | 32       |
| 63   | Fitting, Hosw, 90 Deg, Nylon    | 023-21757-000 | 733420  | 1        | 33       |
| 64   | Clamp Hose 1-1/16 Min Dia       | 021-12930-000 | 147486  | 4        | 33       |
| 68   | Cable Gate Driver To Logic      | 571-03789-281 | 806955  | 1        | 32,33    |
| 69   | Cable 503 Gate To Filtr         | 571-03788-221 | 806942  | 1        | 31,32    |
| 73   | Insulation Circuit Breaker 503  | 071-03789-374 | 748731  | 1        | 32       |
| 77   | Cable 503 Fltr To 1Dcct         | 571-03788-271 | 806945  | 1        | 33       |
| 78   | Cable 503 Fltr To 2Dcct         | 571-03788-272 | 806946  | 1        | 33       |
| 79   | Cable Shielded Cable            | 571-05192-201 | 807092  | 1        | 31,33    |
| 92   | Fuse, Semi Conductor            | 025-38523-000 | 739590  | 3        | 31       |
| 93   | Gasket Pipe Seal 503/419        | 028-15423-000 | 742144  | 4        | 32       |
| 94   | Grom 5/8 OD Tubing:             | 028-04873-000 | 741429  | 4        | 32       |
| 95   | Plate Pipe Seal 503/419         | 071-03791-379 | 748765  | 1        | 32       |
| 96   | Gasket Pipe Seal 503/419        | 028-15114-000 | 742076  | 1        | 32       |
| 97   | Grom 1-1/8 Od Tubing            | 028-04791-000 | 741425  | 1        | 32       |
| 111  | Resistor, 400 Ohm, 100W         | 025-46898-000 | -       | 3        | 23       |
| 112  | EMI Harness                     | 571-05628-261 | -       | 1        | 23       |

**TABLE 28 - VSD SINGLE SYSTEM FRAME D (PIN 20 & 21 = 50) (MODEL SPECIFIC)**

| ITEM | DESCRIPTION                     | WITHOUT FILTER |        | WITH FILTER   |        | FIGURE |
|------|---------------------------------|----------------|--------|---------------|--------|--------|
|      |                                 | PART NUMBER    | SAP    | PART NUMBER   | SAP    |        |
| 121  | Fuse Assy                       | 371-05621-379  | 916023 | 371-05621-379 | 916023 | 31     |
| 122  | Wiring Transformer Assy         | -              | -      | 531-01660-001 | 806680 | 32     |
| 123  | Lug Elec Wire Range No 6        | 025-20939-000  | 737625 | 025-20939-000 | 737625 | 32     |
| 124  | Power Assy Nema 1 503/419 Hp    | -              | -      | 371-03788-101 | 772304 | 31     |
| 125  | Trap High Freq Drive            | -              | -      | 371-03788-349 | 772311 | 31     |
| 126  | Transducer Current 300A Rms Lem | -              | -      | 025-30994-000 | 738536 | 31     |
| 127  | Inductor Harmonic Filter 503    | -              | -      | 025-38135-000 | 739557 | 31     |
| 128  | Contacto 3 Pole 32A 600 Vac     | -              | -      | 024-30985-000 | 735841 | 32     |
| 129  | Contacto, 3 Pole, 170 A, 600V   | -              | -      | 024-35433-000 | 556072 | 32     |
| 130  | Rail Contacto Mtg Drive         | -              | -      | 071-03788-385 | 748715 | 32     |
| 132  | Control IEEE-519                | -              | -      | 031-02022-000 | 65064  | 31     |
| 133  | Control IEEE 519 Logic Board    | -              | -      | 031-02932-042 | 744209 | 31     |
| 134  | Plate Component Mtg 503 Hp      | -              | -      | 071-03789-362 | 748728 | 31     |
| 135  | Fuse, Semiconductor 200A,       | -              | -      | 025-30992-000 | 738534 | 31     |
| 136  | Harness 503 519 Pwr             | -              | -      | 571-03788-201 | 806940 | 31,32  |
| 152  | Resistor Drive 503 Hp           | -              | -      | 371-03788-344 | 772309 | 32     |
| 153  | Control Trigger Board           | -              | -      | 031-02060-002 | 63166  | 31     |
| 157  | Tube Plastic, Polyurethane      | 028-14437-000  | 741872 | 028-14437-000 | 741872 | 33     |
| 158  | Fitting, Hose 90 Degree Nylon   | 023-21756-000  | 733419 | 023-21756-000 | 733419 | 33     |
| 159  | Tube Plastic, Polyurethane      | 028-14491-000  | 741890 | 028-14491-000 | 741890 | 33     |
| 160  | Clamp Hose 11/16 Min Dia        | 023-08856-000  | 617439 | 023-08856-000 | 617439 | 33     |
| 161  | Strip Marker (Fuse)             | 035-23304-000  | 916000 | 035-23304-000 | 916000 | 31     |
| 168  | Reservoir Cooling System        | -              | -      | 371-03789-361 | 772340 | 33     |
| 179  | Prom Serial 02932 IEEE 519      | -              | -      | 031-02933-003 | 744213 | 31     |
| 180  | Eprom 519 Logic                 | -              | -      | 031-01633-007 | 743787 | 31     |
| 181  | Fuseholder 1 Pole 400Amp 1000V  | -              | -      | 025-30993-000 | 738535 | 31     |
| 183  | Gasket Pipe Seal 292/351 Vyper  | 028-15039-000  | 741959 | -             | -      | 33     |
| 184  | Clamp Tube 1" Od, Vinyl         | -              | -      | 021-30744-000 | 730644 | 33     |
| 186  | Harness Wiring Main             | 571-05621-263  | 995433 | 571-05621-263 | 995433 | 31     |
| 187  | Transformer 3Kva, 380/400/415   | 025-32983-000  | 117599 | 025-32983-000 | 117599 | 32     |
| 188  | Flash Control VSD               | 031-02547-102  | 913752 | 031-02547-102 | 913752 | 31     |
| 189  | Eeprom, VSD Logic Board         | 031-03422-010  | 947512 | 031-03422-010 | 947512 | 31     |
| 191  | Control Inverter 50/60 Hz       | 371-02202-101  | 771609 | 371-02202-101 | 771609 | 32     |
| 192  | Bracket Inverter Mounting       | 071-03700-300  | 748630 | 071-03700-300 | 748630 | 32     |
| 193  | Suport Inverter 50 Hz           | 071-03700-305  | 748631 | 071-03700-305 | 748631 | 32     |
| 197  | Fan Assy 50 Hz Units            | 371-03791-343  | 772382 | 371-03791-343 | 772382 | 32     |
| 200  | Orifice Non-Filter Units        | 023-21759-000  | 733421 | 023-21759-000 | 733421 | 33     |
| 202  | Heat Exchanger Drive            | 371-02767-389  | 772126 | 371-02767-389 | 772126 | 33     |
| 203  | Pump Up26-99F 115V 6H 1Ph 60Hz  | 026-33890-000  | 3590   | 026-33890-000 | 3590   | 33     |
| 204  | Elbow Screw Street 1/2 -        | 023-01689-000  | 617258 | 023-01689-000 | 617258 | 33     |
| 205  | Valve Boiler Drain 1/2 Npte     | 022-10090-000  | 692414 | 022-10090-000 | 692414 | 33     |
| 206  | Flange Set Scr Oval 1-1/2       | 023-20283-000  | 733193 | 023-20283-000 | 733193 | 33     |
| 207  | Connr, Conduit Flex Angle       | 025-31316-000  | 435091 | 025-31316-000 | 435091 | 33     |
| 208  | Conduit Elec Flex 1/2 Liquid    | 025-30473-001  | 738505 | 025-30473-001 | 738505 | 33     |
| 209  | Clamp Hose 2-5/8 Min Dia        | 021-19150-000  | 564227 | 021-19150-000 | 564227 | 33     |
| 210  | Bracket Clamp Fill Pipe VSD     | 071-02291-420  | 748189 | 071-02291-420 | 748189 | 33     |
| 211  | Nipple Pipe 1-1/2 Sch 40 X      | 023-18209-000  | 60695  | 023-18209-000 | 60695  | 33     |



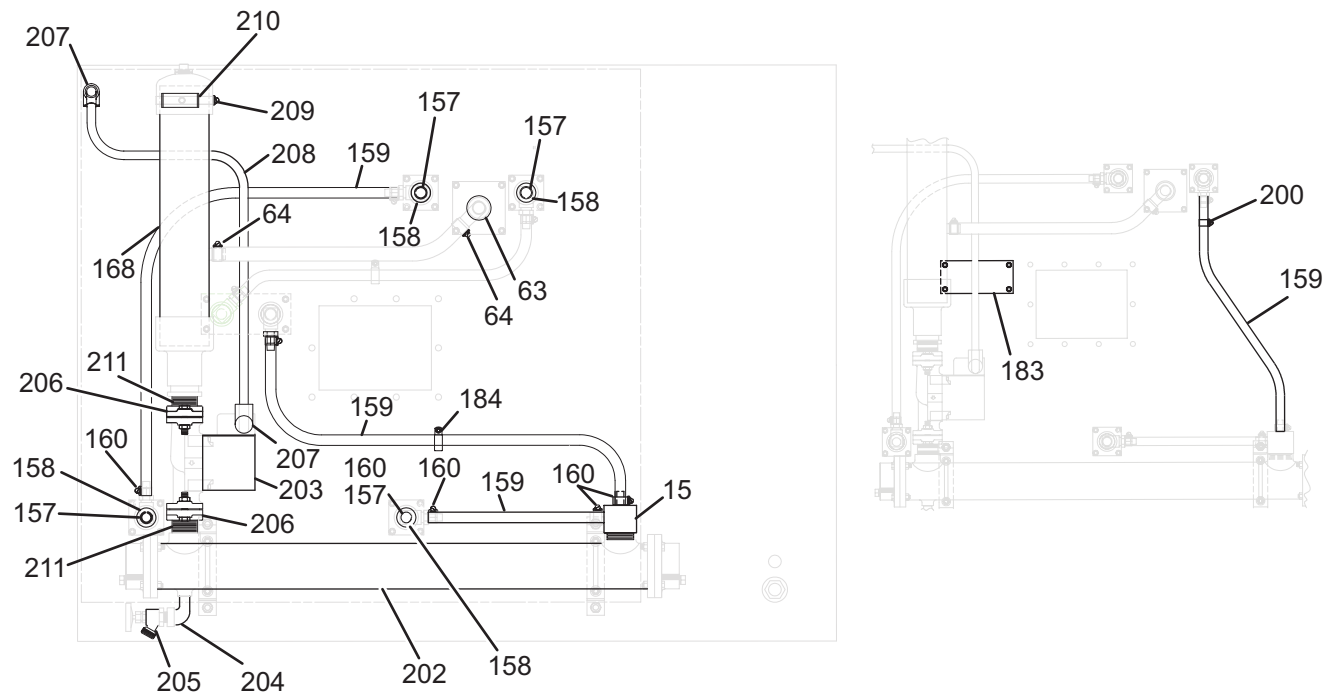
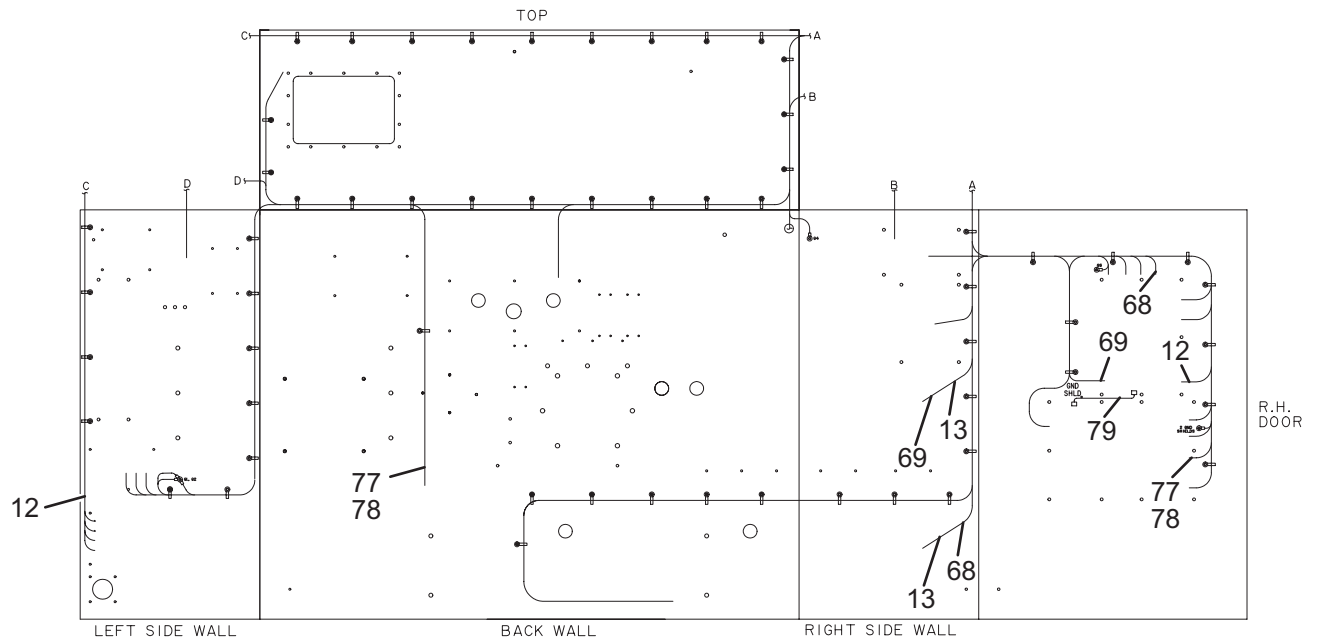


## JOHNSON CONTROLS





## JOHNSON CONTROLS



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**FIGURE 33 - VSD SINGLE SYSTEM FRAME B (PIN 20 & 21 = 50)**

**TABLE 29 - VSD SINGLE SYSTEM FRAME D (COMMON)**

| ITEM | VOLTAGE<br>(PIN 20 & 21)      | DESCRIPTION                    | PART<br>NUMBER | SAP     | QUANTITY | FIGURE   |
|------|-------------------------------|--------------------------------|----------------|---------|----------|----------|
| 1    | 17, 28, 46                    | Kit, Enclosure                 | 371-05623-301  | 916029  | 1        | 35       |
|      | 40, 65, 68                    |                                | 371-05621-301  | 995421  |          |          |
|      | 58                            |                                | 371-06026-301  | 995431  | 1        |          |
| 2    | 17, 28, 46                    | Power Assy 292/351 Hp Nema 1   | 371-02769-100  | 772148  | 1        | 34,37    |
|      | 40, 65, 68                    | Power Assy 503 VSD             | 371-03787-100  | 772286  | 1        |          |
|      | 58                            | Power Assy 608 Hp Nema 1       | 371-03787-110  | 772288  |          |          |
| 3    | 17, 28, 46                    | Fan Assy Drive 351             | 371-02767-342  | 772110  | 1        | 34       |
| 4    | 17, 28, 46                    | Trans Mtg Assy Drive           | 371-02767-357  | 772116  | 1        | 35       |
|      | 40, 58, 65, 68                |                                | 371-03789-357  | 772339  | 1        |          |
| 5    | 17, 28, 46                    | Resistor Drive                 | 371-02767-344  | 772111  | 1        | 34       |
| 6    | 17, 28, 46                    | Standoff Drive                 | 371-02767-366  | 772119  | 3        | 35       |
|      | 40, 58, 65, 68                |                                | 371-03789-371  | 772343  | 3        |          |
| 7    | 17, 28, 46                    | Plate Mtg Transformer/Relay    | 371-02767-373  | 772122  | 1        | 37       |
| 8    | 17, 28, 40, 46, 58,<br>65, 68 | Terminal Strip Assy            | 371-05623-375  | 916032  | 1        | 35       |
| 9    | 17, 28, 46                    | Control Trigger Board          | 031-02060-001  | 743858  | 1        | 37       |
| 10   | 17, 28, 46                    | Harness,Wiring                 | 571-05623-261  | 916051  | 1        | 37       |
| 11   | 17, 28, 46                    | Wiring Power Drive             | 571-02767-206  | 806902  | 1        | 34       |
|      | 40, 58, 65, 68                | Power Wiring 503               | 571-03789-206  | 806949  | 1        |          |
| 13   | 17, 28, 46                    | Cable Trig Gate Driver         | 571-02767-251  | 806904  | 1        | 34,35,37 |
|      | 40, 58, 65, 68                | Cable 503 Trig To Gate         | 571-03789-251  | 806951  | 1        |          |
| 14   | 17, 28, 46                    | Reservoir Cooling System       | 371-02767-361  | 772117  | 1        | 36       |
|      | 40, 58, 65, 68                |                                | 371-03789-361  | 772340  | 1        |          |
| 15   | 40, 58, 65, 68                | Manifold Distr Drive           | 023-21710-000  | 440566  | 1        | 36       |
| 16   | 17, 28, 40, 46, 58,<br>65, 68 | Heat Exchanger Drive           | 371-02767-389  | 772126  | 1        | 36       |
| 17   | 17, 28, 40, 46, 58,<br>65, 68 | Pump Up26-99F 115V 6H 1Ph 60Hz | 026-33890-000  | 3590    | 1        | 36       |
| 19   | 17, 28, 46                    | Kit Circuit Breaker            | 024-38125-000  | 1088783 | 1        | 34       |
|      | 40, 58, 65, 68                |                                | 024-34026-000  | 116943  | 1        |          |
| 20   | 17, 28, 46                    | Control Voltage                | 031-02453-000  | 743895  | 1        | 37       |
| 21   | 17, 28, 46                    | Inductor 424/351               | 025-41692-000  | 740002  | 1        | 34       |
|      | 40, 58, 65, 68                | Inductor Drive 608/503         | 025-41693-000  | 641006  | 1        |          |
| 22   | 17, 28, 40, 46, 58,<br>65, 68 | Resistor, Power Wirewound      | 025-35953-000  | 117824  | 6        | 35       |
| 23   | 17, 28, 40, 46, 58,<br>65, 68 | Capacitor Dv/Dt Network        | 025-39806-000  | 251765  | 3        | 35       |
| 24   | 17, 28, 46                    | Wiring Dvdt Network            | 571-02767-211  | 806903  | 1        | 35       |
|      | 40, 58, 65, 68                | Harness 503 Dvdt               | 571-03789-211  | 806950  | 1        |          |
| 25   | 40, 65, 68                    | Control Voltage                | 031-02453-000  | 743895  | 1        | 35       |
|      | 58                            |                                | 031-02453-001  | 743896  | 1        |          |
| 26   | 17, 28, 40, 46, 65, 68        | Control, VSD Logic Board       | 031-02506-102  | 988651  | 1        | 35,37    |
|      | 40, 65, 68                    |                                | 031-02506-102  | 988651  | 1        |          |
| 27   | 17, 28, 40, 46, 58,<br>65, 68 | Elbow Screw Street 1/2 -       | 023-01689-000  | 617258  | 1        | 36       |

**TABLE 29 (CONT'D) - VSD SINGLE SYSTEM FRAME D (COMMON)**

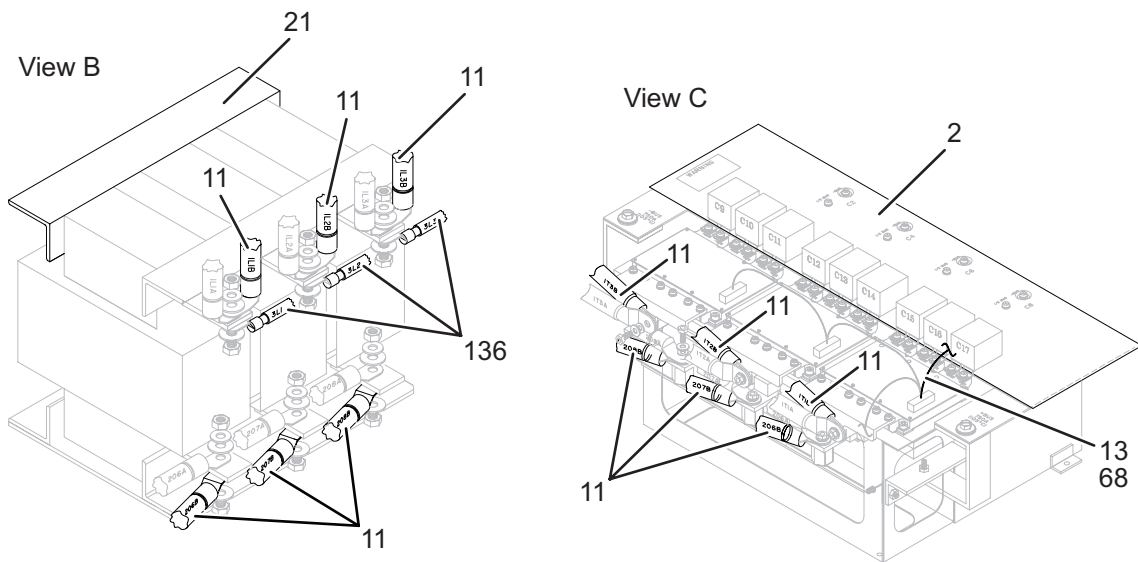
| ITEM | VOLTAGE<br>(PIN 20 & 21)      | DESCRIPTION                            | PART<br>NUMBER | SAP     | QUANTITY | FIGURE |
|------|-------------------------------|----------------------------------------|----------------|---------|----------|--------|
| 28   | 17, 28, 40, 46, 58,<br>65, 68 | Valve Boiler Drain 1/2 Npte            | 022-10090-000  | 692414  | 1        | 36     |
| 30   | 17, 28, 46                    | Clamp Tube 3/4 Od, Vinyl               | 021-18001-000  | 730126  | 1        | 36     |
| 31   | 17, 28, 40, 46, 58,<br>65, 68 | Flange Set Scr Oval 1-1/2              | 023-20283-000  | 733193  | 1        | 36     |
| 32   | 17, 28, 40, 46, 58,<br>65, 68 | Connr, Conduit Flex Angle              | 025-31316-000  | 435091  | 2        | 36     |
| 33   | 17, 28, 46                    | Conduit Flexible Id=1/2In Id=.571In Ps | 025-30473-000  | 618151  | 2        | *      |
|      | 40, 58, 65, 68                | Conduit Elec Flex 1/2 Liquid           | 025-30473-001  | 738505  | 2        |        |
| 34   | 40, 58, 65, 68                | Clamp Hose 2-5/8 Min Dia               | 021-19150-000  | 564227  | 1        | 36     |
| 35   | 40, 58, 65, 68                | Bracket Clamp Fill Pipe VSD            | 071-02291-420  | 748189  | 1        | 36     |
| 36   | 17, 28, 40, 46, 58,<br>65, 68 | Nipple Pipe 1-1/2 Sch 40 X             | 023-18209-000  | 60695   | 2        | 36     |
| 37   | 40, 58, 65, 68                | Gasket Cover Plate Drive               | 028-15101-000  | 742073  | 1        | 34     |
| 39   | 40, 58, 65, 68                | Trans Relay Drive 503 Hp               | 371-03789-373  | 772344  | 1        | 35     |
| 42   | 40, 58, 65, 68                | Plate Cover Drive 503 Hp               | 071-03789-329  | 748723  | 1        | 34     |
| 44   | 17, 28, 46                    | Tube Plastic, Polyurethane             | 028-14439-000  | 741873  | 3.1'     | 36     |
|      | 40, 58, 65, 68                |                                        | 028-14440-000  | 741874  | 2'       |        |
| 45   | 17, 28, 46                    | Clamp Hose, Screw Head, 5/16"          | 021-17547-000  | 730066  | 4        | 36     |
| 46   | 17, 28, 46                    | Strap Grounding                        | 525-32508-001  | 806677  | 2        | 35,37  |
| 59   | 17, 28, 46                    | Eeprom, VSD Logic Board                | 031-03422-010  | 947512  | 1        | 37     |
| 60   | 17, 28, 46                    | Gasket Cover Plate Drive               | 028-15101-000  | 742073  | 1        | 37     |
| 61   | 17, 28, 46                    | Tophat 503 Driv                        | 371-04144-311  | 772433  | 1        | 37     |
| 63   | 40, 58, 65, 68                | Fitting, Hosw, 90 Deg, Nylon           | 023-21757-000  | 733420  | 1        | 36     |
| 64   | 40, 58, 65, 68                | Clamp Hose 1-1/16 Min Dia              | 021-12930-000  | 147486  | 4        | 36     |
| 68   | 17, 28, 46                    | Cable Gate Driver To Logic             | 571-02767-281  | 124157  | 1        | 34,37  |
| 69   | 17, 28, 46                    | Cable Shielded Cable Gate Dr           | 571-02768-221  | 806911  | 1        | 35,37  |
| 92   | 17, 28, 40, 46, 58,<br>65, 68 | Fuse, Semi Conductor                   | 025-38523-000  | 739590  | 3        | 35     |
| 94   | 17, 28, 40, 46, 58,<br>65, 68 | Cable Assy 2Tb To VSD Logic(J16)       | 571-05623-274  | 1060768 | 1        | 37     |
| 95   | 17, 28, 40, 46, 58,<br>65, 68 | Cable Shielded Cable                   | 571-05192-201  | 807092  | 1        | 35,37  |

**TABLE 30 - VSD SINGLE SYSTEM FRAME D (MODEL SPECIFIC)**

| ITEM | VOLTAGE<br>(PIN 20 & 21)   | DESCRIPTION                     | WITHOUT FILTER |        | WITH FILTER    |        | FIGURE |
|------|----------------------------|---------------------------------|----------------|--------|----------------|--------|--------|
|      |                            |                                 | PART<br>NUMBER | SAP    | PART<br>NUMBER | SAP    |        |
| 121  | 17, 28, 40, 46, 65, 68     | Fuse Assy                       | 371-05621-379  | 916023 | 371-06024-379  | 916050 | 35     |
|      | 58                         |                                 |                |        |                |        |        |
| 122  | 17, 28, 40, 46, 58, 65, 68 | Wiring Transformer Assy         | -              | -      | 531-01660-001  | 806680 | 34     |
| 123  | 17, 28, 46                 | Lug Elec Double Barrel          | 025-35173-000  | 117722 | 025-20939-000  | 737625 | 34     |
|      | 40, 58, 65, 68             | Lug Elec Wire Range No 6        | 025-20939-000  | 737625 | 025-20939-000  | 737625 |        |
| 124  | 17, 28, 40, 46, 65, 68     | Power Assy Harmonic Filter      | -              | -      | 371-03788-100  | 123106 | 35,37  |
|      | 58                         | Power Assy Harmonic Filt 608Hp  | -              | -      | 371-03788-110  | 772305 |        |
| 125  | 17, 28, 40, 46, 65, 68     | Trap High Freq Drive            | -              | -      | 371-03788-349  | 772311 | 35     |
|      | 58                         |                                 | -              | -      | 371-04563-349  | 772761 |        |
| 126  | 17, 28, 40, 46, 58, 65, 68 | Transducer Current 300A         | -              | -      | 025-30994-000  | 738536 | 35,37  |
| 127  | 17, 28, 40, 46, 65, 68     | Inductor Harmonic Filter        | -              | -      | 025-38135-000  | 739557 | 35     |
|      | 58                         |                                 | -              | -      | 025-40375-000  | 739807 |        |
| 128  | 17, 28, 40, 46, 58, 65, 68 | Contacteur 3 Pole 32A 600V      | -              | -      | 024-30985-000  | 735841 | 34     |
| 129  | 17, 28, 40, 46, 58, 65, 68 | Contacteur, 3 Pole, 170 A, 600V | -              | -      | 024-35433-000  | 556072 | 34     |
| 130  | 17, 28, 40, 46, 58, 65, 68 | Rail Contacteur Mtg Drive       | -              | -      | 071-03788-385  | 748715 | 34     |
| 131  | 17, 28, 40, 46, 58, 65, 68 | Control Tme Bus Isolator        | -              | -      | 031-01624-000  | 743779 | 35,37  |
| 132  | 17, 28, 40, 46, 65, 68     | Control IEEE-519                | -              | -      | 031-02022-000  | 65064  | 35,37  |
|      | 58                         | Control IEEE-519 575V           | -              | -      | 031-02022-001  | 743845 |        |
| 134  | 17, 28, 40, 46, 58, 65, 68 | Plate Component Mtg 503         | -              | -      | 071-03789-362  | 748728 | 35     |
| 135  | 17, 28, 40, 46, 65, 68     | Fuse, Semiconductor 200A        | -              | -      | 025-30992-000  | 738534 | 35     |
|      | 58                         | Fuse Semiconductor 200A 700Vac  | -              | -      | 025-40405-000  | 739824 |        |
| 136  | 17, 28, 40, 46, 65, 68     | Harness 503 519 Power           | -              | -      | 571-03788-201  | 806940 | 34,35  |
|      | 58                         |                                 | -              | -      | 571-04563-201  | 807066 |        |
| 152  | 17, 28, 40, 46, 65, 68     | Resistor Drive 503 Hp           | -              | -      | 371-03788-344  | 772309 | 34     |
|      | 58                         | Resistor Drive 608 Hp           | -              | -      | 371-03788-342  | 772308 |        |
| 153  | 17, 28, 46                 | Control Trigger Board           | -              | -      | 031-02060-001  | 743858 | 35     |
|      | 40, 65, 68                 |                                 | -              | -      | 031-02060-002  | 63166  |        |
|      | 58                         |                                 | -              | -      | 031-02060-003  | 743859 |        |
| 157  | 17, 28, 40, 46, 58, 65, 68 | Fitting, Flare, 90 Deg, Brass   | 023-20284-000  | 692418 | 023-20284-000  | 692418 | 36     |
| 158  | 17, 28, 40, 46, 58, 65, 68 | Fitting, Hose, Straight, Nylon  | 023-20285-000  | 692417 | 023-20285-000  | 692417 | 36     |
| 159  | 17, 28, 40, 46, 58, 65, 68 | Tube Plastic, Polyurethane      | 028-14491-000  | 741890 | 028-14491-000  | 741890 | 36     |
| 160  | 17, 28, 40, 46, 58, 65, 68 | Clamp Hose 11/16 Min Dia        | 023-08856-000  | 617439 | 023-08856-000  | 617439 | 36     |

**TABLE 30 (CONT'D) - VSD SINGLE SYSTEM FRAME D (MODEL SPECIFIC)**

| ITEM | VOLTAGE<br>(PIN 20 & 21) | DESCRIPTION                    | WITHOUT FILTER |        | WITH FILTER    |        | FIGURE |
|------|--------------------------|--------------------------------|----------------|--------|----------------|--------|--------|
|      |                          |                                | PART<br>NUMBER | SAP    | PART<br>NUMBER | SAP    |        |
| 161  | 17, 28, 40, 46, 65, 68   | Strip Marker (Fuse)            | 035-23304-000  | 916000 | 035-23304-000  | 916000 | 35     |
|      | 58                       |                                | 035-23305-000  | 916001 | 035-23305-000  | 916001 |        |
| 176  | 58                       | Plate Cover Drive 503 Hp       | 071-03789-329  | 748723 | 071-03789-329  | 748723 | 34     |
| 178  | 17, 28, 40, 46, 65, 68   | Cable                          | -              | -      | 031-01658-000  | 743799 | 35,37  |
| 179  | 17, 28, 40, 46, 65, 68   | Prom Serial 02932 IEEE 519     | -              | -      | 031-02933-003  | 744213 | 35,37  |
| 180  | 17, 28, 40, 46           | Eprom 519 Logic U42            | -              | -      | 031-01633-006  | 743786 | 35,37  |
|      | 65, 68                   |                                | -              | -      | 031-01633-007  | 743787 |        |
|      | 58                       |                                | -              | -      | 031-01633-008  | 743788 |        |
| 181  | 17, 28, 40, 46, 65, 68   | Fuseholder 1 Pole 400Amp 1000V | -              | -      | 025-30993-000  | 738535 | 35     |
| 184  | 17, 28, 46               | Manifold Distribution Dr       | 023-20842-000  | 733342 | -              | -      | 36     |
| 186  | 17, 28, 40, 46, 58       | Harness Wiring Main            | -              | -      | 571-05621-261  | 995432 | 35     |
|      | 65, 68                   |                                | -              | -      | 571-05621-263  | 995433 |        |
| 187  | 17, 28, 46               | Transformer 1 3Kva, 240/480    | 025-31499-000  | 738608 | 025-31499-000  | 738608 | 34     |
|      | 40, 65, 68               |                                | -              | -      | 025-32983-000  | 117599 |        |
|      | 58                       |                                | -              | -      | 025-40381-000  | 739812 |        |
| 188  | 65                       | Flash Control VSD              | 031-02547-102  | 913752 | -              | -      | 35     |
|      | 40, 68                   |                                | 031-02547-105  | 913755 | -              | -      |        |
|      | 58                       |                                | 031-02547-103  | 913753 | -              | -      |        |
| 188  | 17, 28, 46, 65           | Flash Control VSD              | -              | -      | 031-02547-102  | 913752 | 35     |
|      | 40, 68                   |                                | -              | -      | 031-02547-105  | 913755 |        |
|      | 58                       |                                | -              | -      | 031-02547-103  | 913753 |        |
| 189  | 17, 28, 40, 46, 65, 68   | Eeprom, VSD Logic Board        | -              | -      | 031-03422-010  | 947512 | 35     |
| 191  | 17, 28, 46               | Flash Control VSD              | 031-02547-102  | 913752 | -              | -      | 34     |
|      | 65, 68                   |                                | 371-02202-101  | 771609 | -              | -      |        |
| 197  | 65, 68                   | Fan Assy Drive 503Hp           | 371-03789-343  | 772338 | 371-03789-343  | 772338 | 34     |
|      | 40, 58                   |                                | 371-03789-342  | 772337 | 371-03789-342  | 772337 |        |



LD18902

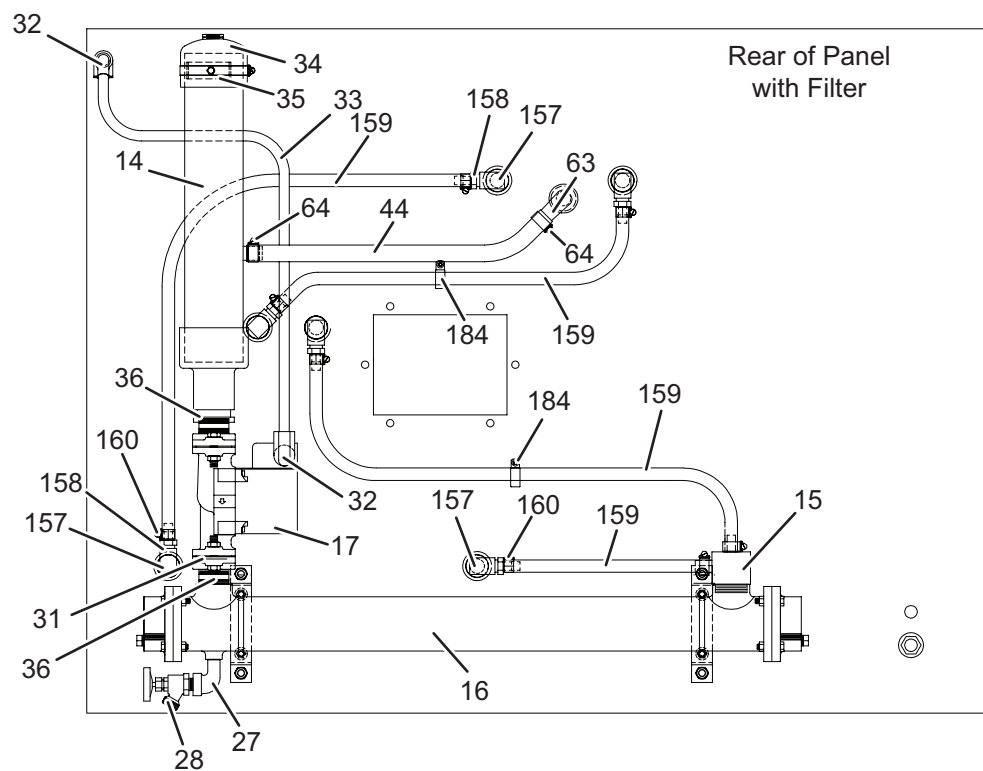
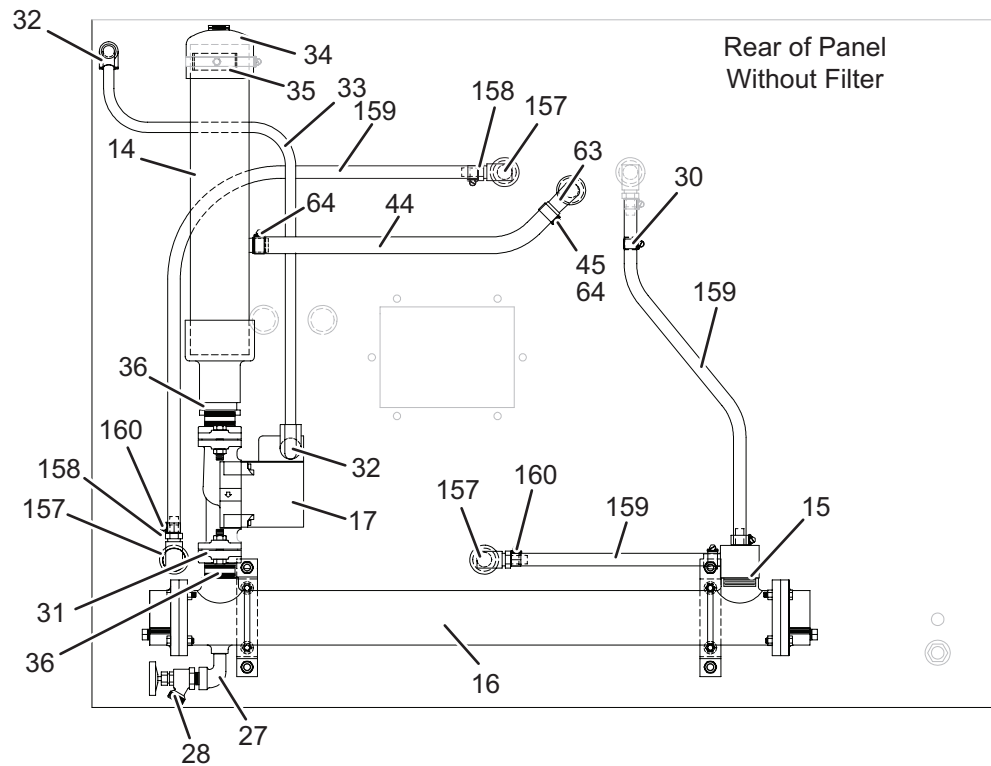
**FIGURE 34 - VSD SINGLE SYSTEM FRAME D**





## JOHNSON CONTROLS





LD18904

**FIGURE 36 - VSD SINGLE SYSTEM FRAME D**



## JOHNSON CONTROLS

**TABLE 31 - VSD SINGLE SYSTEM SERVICE KITS**

| <b>VSD MODEL<br/>NUMBER</b> | <b>POWER<br/>ASSEMBLY KIT</b> | <b>LOGIC BOARD<br/>KIT</b> | <b>FILTER<br/>LOGIC BOARD<br/>KIT</b> | <b>FILTER<br/>ASSEMBLY KIT</b> |
|-----------------------------|-------------------------------|----------------------------|---------------------------------------|--------------------------------|
| <b>TVP1CMPRBWN-40B</b>      | 371-03708-001                 | 331-02506-614              | N/A                                   | N/A                            |
| <b>TVP1CMPRBWN-40D</b>      | 371-04164-001                 | 331-02506-614              | N/A                                   | N/A                            |
| <b>TVP1CMPRBWF-40B</b>      | 371-03708-001                 | 331-02506-614              | 331-02932-631                         | 371-03707-001                  |
| <b>TVP1CMPRBWF-40D</b>      | 371-04164-001                 | 331-02506-614              | 331-02932-642                         | 371-04165-001                  |
| <b>TVP1CMPRBWN-46B</b>      | 371-03708-001                 | 331-02506-612              | N/A                                   | N/A                            |
| <b>TVP1CMPRBWN-46D</b>      | 371-04164-001                 | 331-02506-612              | N/A                                   | N/A                            |
| <b>TVP1CMPRBWF-46B</b>      | 371-03708-001                 | 331-02506-612              | 331-02932-631                         | 371-03707-001                  |
| <b>TVP1CMPRBWF-46D</b>      | 371-04164-001                 | 331-02506-612              | 331-02932-642                         | 371-04165-001                  |
| <b>TVP1CMPRBWN-58B</b>      | 371-05157-001                 | 331-02506-613              | N/A                                   | N/A                            |
| <b>TVP1CMPRBWN-58D</b>      | 371-05159-001                 | 331-02506-613              | N/A                                   | N/A                            |
| <b>TVP1CMPRBWF-58B</b>      | 371-05157-001                 | 331-02506-613              | 331-02932-101                         | 371-05158-001                  |
| <b>TVP1CMPRBWF-58D</b>      | 371-05159-001                 | 331-02506-613              | 331-02932-102                         | 371-05160-001                  |
| <b>TVP1CMPRBWN-65D</b>      | 371-04164-001                 | 331-02506-611              | N/A                                   | N/A                            |
| <b>TVP1CMPRBWF-65D</b>      | 371-04164-001                 | 331-02506-611              | 331-02932-642                         | 371-04165-001                  |
| <b>TVP1CMPRBWN-68D</b>      | 371-04164-001                 | 331-02506-614              | N/A                                   | N/A                            |
| <b>TVP1CMPRBWF-68D</b>      | 371-04164-001                 | 331-02506-614              | 331-02932-642                         | 371-04165-001                  |

**TABLE 32 - VSD NF DISCONNECT SWITCH DUAL SYSTEM (COMMON)**

| ITEM | DESCRIPTION                          | PART NUMBER   | SAP     | FIGURE |
|------|--------------------------------------|---------------|---------|--------|
| 1    | Kit-Enclosure                        | 371-05603-301 | 774267  | 38     |
| 5    | Relay Control DPST-No, 120 Vac       | 024-30441-000 | 664298  | 38     |
| 6    | Standoff Drive 503Hp                 | 371-03789-371 | 772343  | 39     |
| 7    | Transformer Class 2                  | 025-27911-000 | 1312    | 38     |
| 8    | Shielded 2 Compr                     | 071-05183-000 | 749197  | 40     |
|      | Shield 3 Compr Right (Frame D)       | 071-05187-000 | 749199  |        |
| 9    | Shielded 2/3 Compr                   | 071-05184-000 | 749198  | 40     |
| 10   | Bracket, Shield                      | 371-05603-389 | 774279  | 40     |
| 11   | Bracket, Shield                      | 371-05603-392 | 774280  | 40     |
| 15   | Fuseholder-Modular, 1-Pole           | 025-39951-000 | 359985  | 38     |
| 17   | Control Voltage                      | 031-02453-000 | 743895  | 38     |
| 18   | Dwg-Rail, Fuse Mtg                   | 071-05603-350 | 692398  | 38     |
| 20   | Control Relay Board                  | 031-02479-001 | 340702  | 40     |
| 22   | Resistor, Power Wirewound            | 025-35953-000 | 117824  | 38     |
| 23   | Capacitor Dv/Dt Network              | 025-39806-000 | 251765  | 38     |
| 24   | Harness Dvdt 2 Compr                 | 571-04178-211 | 806999  | 38     |
| 25   | Thermal Pad, Resistor                | 028-15299-000 | 742121  | 38     |
| 28   | Control, Control Board               | 331-03478-102 | 5003222 | 40     |
| 30   | Standoff Drive                       | 371-04178-371 | 772516  | 39     |
| 31   | Control Time Bus Isolator            | 031-01624-000 | 743779  | 38     |
| 32   | Gasket, Field Conn                   | 028-16531-000 | 692397  | 38     |
| 33   | Gasket Customer Conn                 | 028-15247-000 | 742106  | 38     |
| 34   | Gasket Circuit Brkt 2 Compr          | 028-15824-000 | 651576  | 40     |
|      | Gasket Circuit Breaker (Frame D)     | 028-15248-000 | 742107  |        |
| 37   | Gasket Coil Drive                    | 028-15251-000 | 742109  | 39     |
| 39   | Terminal Block                       | 371-05603-356 | 774277  | 38     |
| 41   | Cable Trig To Gate                   | 571-04178-251 | 427924  | 38,39  |
| 42   | Cable Gate Driver                    | 571-04178-281 | 427925  | 39     |
| 43   | Cable Gate Driver                    | 571-04178-282 | 427926  | 39     |
| 59   | Eeprom, VSD Logic Board              | 031-03422-010 | 947512  | 40     |
| 61   | Switch Keypad                        | 024-34930-000 | 247624  | 40     |
| 62   | Display LCD                          | 031-02508-000 | 743925  | 40     |
| 64   | Clamp Ribbon Wire, Gray              | 025-25156-000 | 737712  | 40     |
| 68   | Cable Dispaly To Micro               | 571-05603-261 | 1085133 | 40,42  |
|      | Cable Display/Cont Bd (Frame D)      | 571-04178-268 | 807013  |        |
| 69   | Cable Ribbon Trident Keypad To Micro | 571-05603-262 | 1085134 | 40,42  |
|      | Cable Keypad/Cont Bd (Frame D)       | 571-04178-269 | 807014  |        |
| 70   | Cable Ribbon Relay                   | 571-04178-263 | 807008  | 40     |
| 71   | Cable Logic To Control               | 571-04178-271 | 807015  | 42     |
| 72   | Stepper Motor (Ets 250) EEV          | 031-02742-000 | 744082  | 38     |
| 74   | Rail Mtg Valve Controller            | 071-04178-363 | 748851  | 38     |
| 76   | Clamp, End For 35Mm X 7Mm            | 025-29189-000 | 117471  | 38     |
| 80   | Ferr Splice Cap For Use With         | 025-10434-000 | 737259  | 38     |
| 81   | Insr Elec For Use With               | 025-10435-000 | 737260  | 38     |

**TABLE 32 (CONT'D) - VSD NF DISCONNECT SWITCH DUAL SYSTEM (COMMON)**

| ITEM | DESCRIPTION                    | PART NUMBER   | SAP    | FIGURE |
|------|--------------------------------|---------------|--------|--------|
| 82   | Ferr Splice Cap For Use With   | 025-10372-000 | 737258 | 38,41  |
| 83   | Insr Elec For Use With         | 025-10371-000 | 737257 | 38,41  |
| 84   | Bush Snap 7/8 Id Hole          | 025-12016-000 | 737325 | 38     |
| 88   | Fuse, Semi Conductor           | 025-38523-000 | 739590 | 38     |
| 90   | Fuse, Cartridge Type 15 Amp    | 025-35907-000 | 117822 | 38     |
| 91   | Fuse, Cartridge Type 10 Amp    | 025-35905-000 | 739234 | 38     |
| 92   | Fuse, Cartridge Type 15 Amp    | 025-34141-000 | 739008 | 38     |
| 93   | Fuse, Cartridge Type 20 Amp    | 025-35908-000 | 117823 | 38     |
| 94   | Fuse, Cartridge Type 6 Amp     | 025-35902-000 | 264466 | 38     |
| 95   | Base, Flat Cable Mount         | 025-42113-000 | 644640 | 40     |
| 96   | Base, Flat Cable Mount         | 025-42114-000 | 644641 | 40     |
| 97   | Spacer Nylon, 1/4 Od X 7/16 Lg | 021-17575-000 | 654243 | 40     |
| 116  | Block Term Base Flat           | 025-20944-000 | 62696  | 38     |
| 117  | Block Term End                 | 025-20946-000 | 618097 | 38     |
| 127  | Heat Exchanger Drive           | 371-02767-389 | 772126 | 41     |
| 128  | Pump Up26-99F 115V 6H 1Ph 60Hz | 026-33890-000 | 3590   | 41     |
| 129  | Reservoir                      | 371-05603-361 | 774278 | 41     |
| 130  | Valve Boiler Drain 1/2 Npte    | 022-10090-000 | 692414 | 41     |
| 132  | Elbow Screw Street 1/2 -       | 023-01689-000 | 617258 | 41     |
| 138  | Nipple Pipe 1-1/2 Sch 40 X     | 023-18209-000 | 60695  | 41     |
| 139  | Flange Set Scr Oval 1-1/2      | 023-20283-000 | 733193 | 41     |
| 140  | Connr, Conduit Flex Angle      | 025-31316-001 | 144731 | 41     |
| 141  | Fitting, Hose, Straight, Nylon | 023-20285-000 | 692417 | 41     |
| 142  | Fitting, Flare, 90 Deg, Brass  | 023-20284-000 | 692418 | 41     |
| 143  | Clamp Hose 11/16 Min Dia       | 023-08856-000 | 617439 | 41     |
| 144  | Tube Plastic, Polyurethane     | 028-14491-000 | 741890 | 41     |

**TABLE 33 - VSD NF DISCONNECT SWITCH DUAL SYSTEM (MODEL SPECIFIC)**

| ITEM | PIN 11  | VOLTAGE<br>(PIN 20 & 21) | DESCRIPTION                    | PART NUMBER        | SAP         | FIGURE |
|------|---------|--------------------------|--------------------------------|--------------------|-------------|--------|
| 200  | A, B, C | All                      | Panel, A,B,C, Comm             | 371-05603-100      | 774265      | *      |
|      | D       | All                      | Panel, Trident, Com Parts      | 371-05604-100      | 825926      |        |
| 202  | A, B    | All                      | Kit, Disc, Trident, 600A       | 371-05618-001      | 704512      | 40     |
|      | C       | 40, 50, 65, 68           | Kit, Disc, Trident, 800A       | 371-05618-002      | 704513      |        |
|      | D       | 40, 50, 65, 68           | Kit, Disc, Trident, 1000A      | 371-05618-003      | 847967      |        |
|      |         | 46, 58                   | Kit, Disc, Trident, 800A       | 371-05618-002      | 704513      |        |
| 204  | A, B    | All                      | Wiring, Pwr,                   | 571-05603-204      | 708776      | 40     |
|      | C       | 40, 50, 65, 68           | Wiring, Pwr, Trident Mod A,B,C | 571-05603-212      | 704523      |        |
|      | D       | 40, 50, 65, 68           | Wiring, Pwr, Trident Mod D     | 571-05604-205      | 825894      |        |
|      |         | 46, 58                   | Wiring, Pwr, Trident Mod D     | 571-05604-203      | 847974      |        |
| 206  | A, B    | All                      | Lug, Elec Sgl Bbl, #4-500      | 025-32835-000      | 738755      | 38     |
|      | C       | 40, 50, 65, 68           |                                |                    |             |        |
|      | D       | 40, 46, 50, 58, 65, 68   |                                |                    |             |        |
| 207  | A       | All                      | Inductor Drive 2 Compr         | 025-42133-000      | 740060      | 39     |
|      | B       | All                      | Inductor Drive 2/4             | 025-40742-000      | 739923      |        |
|      | C       | 40, 50, 65, 68           | Inductor Drive 2/4             | 025-40742-000      | 739923      |        |
|      | D       | 40, 50, 65, 68           | Inductor Drive 3               | 025-40741-000      | 739922      |        |
|      |         | 46, 58                   | Inductor Drive 3 Compr         | 025-39676-000      | 342937      |        |
| 216  | A       | 17, 28, 40, 46, 58, 65   | Control Trigger Board          | 031-02060-001      | 743858      | 38     |
|      |         | 50, 68                   |                                | 031-02060-002      | 63166       |        |
|      | B       | 17, 28, 40, 46, 58       |                                | 031-02060-001      | 743858      |        |
|      |         | 50, 65, 68               |                                | 031-02060-002      | 63166       |        |
|      | C       | 50, 65, 68               |                                | 031-02060-002      | 63166       |        |
|      |         | 40                       |                                | 031-02060-001      | 743858      |        |
|      | D       | 40, 50, 65, 68           |                                | 031-02060-002      | 63166       |        |
|      |         | 46, 58                   |                                | 031-02060-001      | 743858      |        |
|      | 217     | A                        |                                | 17, 28, 46, 58, 65 | Transformer |        |
| 68   |         |                          | 025-40114-011                  | 704962             |             |        |
| 40   |         |                          | 025-40114-007                  | 692407             |             |        |
| 50   |         |                          | 025-40114-005                  | 739754             |             |        |
| B    |         | 17, 28, 40, 46, 58       | Transformer                    | 025-40114-001      | 739751      |        |
|      |         | 65                       |                                | 025-40114-007      | 692407      |        |
|      |         | 68                       |                                | 025-40114-011      | 704962      |        |
|      |         | 50                       |                                | 025-40114-005      | 739754      |        |
| C    |         | 40, 65                   | Transformer                    | 025-40114-007      | 692407      |        |
|      |         | 68                       |                                | 025-40114-011      | 704962      |        |
|      |         | 50                       |                                | 025-40114-005      | 739754      |        |
| D    |         | 65                       | Transformer                    | 025-40114-007      | 692407      |        |
|      |         | 40, 68                   |                                | 025-40114-011      | 704962      |        |
|      |         | 46, 58                   |                                | 025-40114-001      | 739751      |        |
|      |         | 50                       |                                | 025-40114-005      | 739754      |        |

**TABLE 33 (CONT'D) - VSD NF DISCONNECT SWITCH DUAL SYSTEM (MODEL SPECIFIC)**

| ITEM | PIN 11     | VOLTAGE<br>(PIN 20 & 21) | DESCRIPTION                  | PART NUMBER   | SAP     | FIGURE |
|------|------------|--------------------------|------------------------------|---------------|---------|--------|
| 219  | A          | All                      | Fan Assembly                 | 371-05278-801 | 704963  | 39     |
|      | B          | 17, 28, 40, 46, 58       |                              | 371-04179-813 | 772632  |        |
|      |            | 50, 65, 68               |                              | 371-04179-812 | 692408  |        |
|      | C          | 40, 65, 68               |                              | 371-04179-812 | 692408  |        |
|      |            | 50                       |                              | 371-04179-813 | 772632  |        |
|      | D          | 40, 46, 50, 58, 65, 68   |                              | 371-04179-812 | 692408  |        |
| 221  | A          | 17, 28, 46, 58, 65       | Flash Control 460V           | 031-02649-110 | 1090841 | 40     |
|      |            | 40, 50, 68               | Flash Control 380/400V       | 031-02649-111 | 1084658 |        |
|      | B          | 17, 28, 46, 58           | Flash Control 460V           | 031-02649-110 | 1090841 |        |
|      |            | 40, 50, 65, 68           | Flash Control 380/400V       | 031-02649-111 | 1084658 |        |
|      | C          | 40, 50, 65, 68           | Flash Control C & D 380/400V | 031-02649-112 | 1084657 |        |
|      | D          | 40, 50, 65, 68           | Flash Control C & D 380/400V | 031-02649-112 | 1084657 |        |
|      |            | 46, 58                   | Flash Control D 460V         | 031-02649-115 | 1090844 |        |
|      |            |                          |                              |               |         |        |
| 222  | A          | All                      | Power Assy 2 Compr           | 371-05279-101 | 773890  | 39     |
|      | B          | All                      |                              | 371-04181-101 | 772682  |        |
|      | C          | 40, 50, 65, 68           |                              | 371-04181-104 | 772685  |        |
|      | D          | 40, 46, 50, 58, 65, 68   |                              | 371-05679-101 | 774330  |        |
| 224  | A, B, C    | All                      | Harness, Main,               | 571-05603-221 | 807139  | 42     |
|      | D          | 40, 46, 50, 58, 65, 68   | Harness, Main, Mod D         | 571-05604-221 | 825889  |        |
| 225  | A, B       | All                      | Trans Drive System #1        | 371-04178-365 | 772513  | 39     |
|      | C          | 40, 50, 65, 68           |                              | 371-04178-369 | 772515  |        |
|      | D          | 40, 46, 50, 58, 65, 68   |                              | 371-04178-369 | 772515  |        |
| 226  | A, B       | All                      | Trans Drive System #2        | 371-04178-367 | 772514  | 39     |
|      | C          | 40, 50, 65, 68           |                              | 371-04178-378 | 772519  |        |
|      | D          | 40, 46, 50, 58, 65, 68   |                              | 371-04178-378 | 772519  |        |
| 227  | A, B, C, D | All                      | Fuseholder-Modular, 3-Pole   | 025-39952-000 | 343433  | 38     |
| 228  | A, B       | All                      | Fuse, Semi, 630A, 700V       | 025-42142-000 | 645566  | 39     |
|      | C          | 40, 50, 65, 68           | Fuse, Semi, 800A, 700V       | 025-40763-000 | 739932  |        |
|      | D          | 40, 50, 65, 68           | Fuse, Semi, 1000A, 700V      | 025-42601-000 | 703412  |        |
|      |            | 46, 58                   | Fuse, Semi, 900A, 700V       | 025-40786-000 | 739934  |        |
| 231  | A          | All                      | Wiring, Pwr, Mod A,B,C       | 571-05603-201 | 704518  | 39     |
|      | B          | All                      | Wiring, Pwr, Mod A,B,C       | 571-05603-205 | 692422  |        |
|      | C          | 40, 50, 65, 68           | Wiring, Pwr, Mod A,B,C       | 571-05603-209 | 807137  |        |
|      | D          | 40, 46, 50, 58, 65, 68   | Wiring, Pwr, Mod D           | 571-05604-201 | 825895  |        |
| 233  | A, B       | All                      | Fuse, Cartridge Type 10 Amp  | 025-35905-000 | 739234  | 38     |
|      | C          | 40, 50, 65, 68           | Fuse, Cartridge Type 12 Amp  | 025-35906-000 | 652698  |        |
| 234  | D          | 40, 46, 50, 58, 65, 68   | Fuse, Cartridge Type 12 Amp  | 025-35906-000 | 652698  | 40     |
| 236  | D          | 40, 46, 50, 58, 65, 68   | Control VSD Logic Brd        | 031-02507-000 | 360014  | 40     |
| 239  | A, B, C    | All                      | Switch, DPST, Two Position   | 024-34951-000 | 736122  | 40     |
|      | D          | 40, 46, 50, 58, 65, 68   | Switch, DPST, Two Position   | 024-34951-000 | 736122  |        |
| 240  | A, B, C    | All                      | Control VSD Logic Brd        | 031-02507-000 | 360014  | 40     |

**NOTE:** Items with an \* are NOT represented.

**TABLE 34 - VSD CIRCUIT BREAKER DUAL SYSTEM (COMMON)**

| ITEM | DESCRIPTION                      | PART NUMBER   | SAP     | FIGURE |
|------|----------------------------------|---------------|---------|--------|
| 1    | Kit-Enclosure, Trident           | 371-05603-301 | 774267  | 38     |
| 5    | Relay Control DPST-No, 120 Vac   | 024-30441-000 | 664298  | 38     |
| 6    | Standoff Drive 503Hp             | 371-03789-371 | 772343  | 39     |
| 7    | Transformer Class 2              | 025-27911-000 | 1312    | 38     |
| 8    | Shielded 2 Compr Right           | 071-05183-000 | 749197  | 40     |
| 9    | Shielded 2/3 Compr               | 071-05184-000 | 749198  | 40     |
| 10   | Bracket, Shield                  | 371-05603-389 | 774279  | 40     |
| 11   | Bracket, Shield                  | 371-05603-392 | 774280  | 40     |
| 15   | Fuseholder-Modular, 1-Pole       | 025-39951-000 | 359985  | 38     |
| 17   | Control Voltage                  | 031-02453-000 | 743895  | 38     |
| 18   | Dwg-Rail, Fuse Mtg               | 071-05603-350 | 692398  | 38     |
| 20   | Control Relay Board              | 031-02479-001 | 340702  | 40     |
| 22   | Resistor, Power Wirewound        | 025-35953-000 | 117824  | 38     |
| 23   | Capacitor Dv/Dt Network          | 025-39806-000 | 251765  | 38     |
| 24   | Harness Dvdt 2 Compr             | 571-04178-211 | 806999  | 38     |
| 25   | Thermal Pad, Resistor            | 028-15299-000 | 742121  | 38     |
| 28   | Control, Control Board           | 331-03478-102 | 5003222 | 40     |
| 30   | Standoff Drive                   | 371-04178-371 | 772516  | 39     |
| 31   | Control Tme Bus Isolator         | 031-01624-000 | 743779  | 38     |
| 32   | Gasket, Field Conn,              | 028-16531-000 | 692397  | 38     |
| 33   | Gasket Customer Conn             | 028-15247-000 | 742106  | 38     |
| 34   | Gasket Circuit Brkt 2 Compr      | 028-15824-000 | 651576  | 40     |
| 37   | Gasket Coil Drive                | 028-15251-000 | 742109  | 39     |
| 39   | Terminal Block                   | 371-05603-356 | 774277  | 38     |
| 41   | Cable Trig To Gate               | 571-04178-251 | 427924  | 38,39  |
| 42   | Cable Gate Driver                | 571-04178-281 | 427925  | 39     |
| 43   | Cable Gate Driver                | 571-04178-282 | 427926  | 39     |
| 59   | Eeprom, VSD Logic Board          | 031-03422-010 | 947512  | 40     |
| 61   | Switch Keypad                    | 024-34930-000 | 247624  | 40     |
| 62   | Display LCD                      | 031-02508-000 | 743925  | 40     |
| 64   | Clamp Ribbon Wire, Gray          | 025-25156-000 | 737712  | 40     |
| 68   | Cable Ribbon Dispaly To Micro    | 571-05603-261 | 1085133 | 40,42  |
|      | Cable Display/Cont Bd (Frame D)  | 571-04178-268 | 807013  |        |
| 69   | Cable Ribbon Keypad To Micro     | 571-05603-262 | 1085134 | 40,42  |
|      | Cable Keypad/Cont Bd (Frame D)   | 571-04178-269 | 807014  |        |
| 70   | Cable Ribbon Relay               | 571-04178-263 | 807008  | 40     |
| 71   | Cable Logic To Control           | 571-04178-271 | 807015  | 42     |
|      | Cable Logic To Control (Frame D) | 571-04179-271 | 807033  |        |
| 72   | Stepper Motor (Ets 250) EEV      | 031-02742-000 | 744082  | 38     |
| 74   | Rail Mtg Valve Controller        | 071-04178-363 | 748851  | 38     |
| 76   | Clamp, End For 35Mm X 7Mm        | 025-29189-000 | 117471  | 38     |
| 77   | Cable Ribbon Relay               | 571-04178-264 | 807009  | 40     |
| 80   | Ferr Splice Cap For Use With     | 025-10434-000 | 737259  | 38     |
| 81   | Insr Elec For Use With           | 025-10435-000 | 737260  | 38     |
| 82   | Ferr Splice Cap For Use With     | 025-10372-000 | 737258  | 38,41  |



**TABLE 34 (CONT'D) - VSD CIRCUIT BREAKER DUAL SYSTEM (COMMON)**

| ITEM | DESCRIPTION                      | PART NUMBER   | SAP    | FIGURE |
|------|----------------------------------|---------------|--------|--------|
| 83   | Insr Elec For Use With           | 025-10371-000 | 737257 | 38,41  |
| 84   | Bush Snap 7/8 Id Hole            | 025-12016-000 | 737325 | 38     |
| 86   | Cable, Shielded                  | 571-05603-291 | 807140 | *      |
|      | Cable, Shielded, Mod D (Frame D) | 571-05604-291 | 825888 |        |
| 88   | Fuse, Semi Conductor             | 025-38523-000 | 739590 | 38     |
| 90   | Fuse, Cartridge Type 15 Amp      | 025-35907-000 | 117822 | 38     |
| 91   | Fuse, Cartridge Type 10 Amp      | 025-35905-000 | 739234 | 38     |
| 92   | Fuse, Cartridge Type 15 Amp      | 025-34141-000 | 739008 | 38     |
| 93   | Fuse, Cartridge Type 20 Amp      | 025-35908-000 | 117823 | 38     |
| 94   | Fuse, Cartridge Type 6 Amp       | 025-35902-000 | 264466 | 38     |
| 95   | Base, Flat Cable Mount           | 025-42113-000 | 644640 | 40     |
| 96   | Base, Flat Cable Mount           | 025-42114-000 | 644641 | 40     |
| 116  | Block Term Base Flat             | 025-20944-000 | 62696  | 38     |
| 117  | Block Term End                   | 025-20946-000 | 618097 | 38     |
| 127  | Heat Exchanger Drive             | 371-02767-389 | 772126 | 41     |
| 128  | Pump Up26-99F 115V 6H 1Ph 60Hz   | 026-33890-000 | 3590   | 41     |
| 129  | Reservoir                        | 371-05603-361 | 774278 | 41     |
| 130  | Valve Boiler Drain 1/2 Npte      | 022-10090-000 | 692414 | 41     |
| 132  | Elbow Screw Street 1/2 -         | 023-01689-000 | 617258 | 41     |
| 138  | Nipple Pipe 1-1/2 Sch 40 X       | 023-18209-000 | 60695  | 41     |
| 139  | Flange Set Scr Oval 1-1/2        | 023-20283-000 | 733193 | 41     |
| 140  | Connr, Conduit Flex Angle        | 025-31316-001 | 144731 | 41     |
| 141  | Fitting, Hose, Straight, Nylon   | 023-20285-000 | 692417 | 41     |
| 142  | Fitting, Flare, 90 Deg, Brass    | 023-20284-000 | 692418 | 41     |
| 143  | Clamp Hose 11/16 Min Dia         | 023-08856-000 | 617439 | 41     |
| 144  | Tube Plastic, Polyurethane       | 028-14491-000 | 741890 | 41     |
| 145  | Manifold, Distribution           | 023-25218-000 | 692419 | 41     |
| 147  | Conduit Elec Flex 1/2 Liquid     | 025-30473-001 | 738505 | 41     |
| 148  | Bracket Clamp Fill Pipe VSD      | 071-02291-420 | 748189 | 41     |
| 149  | Clamp Hose 2-5/8 Min Dia         | 021-19150-000 | 564227 | 41     |
| 150  | Clamp Tube 1" Od, Vinyl          | 021-30744-000 | 730644 | 41     |

**NOTE:** Items with an \* are NOT represented.

**TABLE 35 - VSD CIRCUIT BREAKER DUAL SYSTEM (MODEL SPECIFIC)**

| ITEM | PIN 11     | VOLTAGE<br>(PIN 20 & 21) | DESCRIPTION                            | PART NUMBER   | SAP    | FIGURE |
|------|------------|--------------------------|----------------------------------------|---------------|--------|--------|
| 200  | A , B, C   | All                      | Panel, A,B,C, Comm                     | 371-05603-100 | 774265 | *      |
|      | D          | All                      | Panel, Com Parts                       | 371-05604-100 | 825926 |        |
| 202  | A, B       | All                      | Kit, Breaker, 500A                     | 371-05617-007 | 704507 | 40     |
|      | C          | 40, 50, 65, 68           | Kit, Breaker, 800A                     | 371-05617-005 | 774284 |        |
|      | D          | 40, 50, 65, 68           | Kit, Breaker, 1000A                    | 371-05617-008 | 825890 |        |
|      |            | 46, 58                   | Kit, Breaker, 800A                     | 371-05617-005 | 774284 |        |
| 204  | A          | All                      | Wiring, Pwr, Mod A,B,C                 | 571-05603-203 | 692421 | 40     |
|      | B          | All                      |                                        | 571-05603-204 | 708776 |        |
|      | C          | All                      |                                        | 571-05603-211 | 807138 |        |
|      | D          | 40, 50, 65, 68           |                                        | 571-05678-204 | 807144 |        |
|      |            | 46, 58                   |                                        | 571-05678-202 | 807142 |        |
|      |            |                          |                                        |               |        |        |
| 206  | A, B, C, D | All                      | Lug, Elec Sgl Bbl, #4-500              | 025-32835-000 | 738755 | 38     |
| 207  | A          | All                      | Inductor Drive 2 Compr                 | 025-42133-000 | 740060 | 39     |
|      | B, C       | All                      | Inductor Drive 2/4                     | 025-40742-000 | 739923 |        |
|      | D          | 40, 50, 65, 68           | Inductor Drive 3                       | 025-40741-000 | 739922 |        |
|      |            | 46, 58                   |                                        | 025-39676-000 | 342937 |        |
| 216  | A, B       | 17, 28, 40, 46, 58       | Control Trigger Board                  | 031-02060-001 | 743858 | 38     |
|      |            | 50, 65, 68               |                                        | 031-02060-002 | 63166  |        |
|      | C          | 50, 65, 68               |                                        | 031-02060-002 | 63166  |        |
|      |            | 40                       |                                        | 031-02060-001 | 743858 |        |
|      | D          | 50, 65, 68               |                                        | 031-02060-002 | 63166  |        |
|      |            | 40, 46, 58               |                                        | 031-02060-001 | 743858 |        |
|      |            |                          |                                        |               |        |        |
|      |            |                          |                                        |               |        |        |
| 217  | A, B       | 17, 28, 46, 58           | Transformer, 2Kva, 480:120Vac          | 025-40114-001 | 739751 | 38     |
|      |            | 40, 65                   | Transformer, 2Kva, 380:120Vac          | 025-40114-007 | 692407 |        |
|      |            | 68                       | Transformer P=374.0-374.0V Three Phase | 025-40114-011 | 704962 |        |
|      |            | 50                       | Transformer, 2Kva, 400:120Vac          | 025-40114-005 | 739754 |        |
|      | C          | 40, 65                   | Transformer, 2Kva, 380:120Vac          | 025-40114-007 | 692407 |        |
|      |            | 68                       | Transformer P=374.0-374.0V Three Phase | 025-40114-011 | 704962 |        |
|      |            | 50                       | Transformer, 2Kva, 400:120Vac          | 025-40114-005 | 739754 |        |
|      |            | 40, 65                   | Transformer, 2Kva, 380:120Vac          | 025-40114-007 | 692407 |        |
|      | D          | 68                       | Transformer P=374.0-374.0V Three Phase | 025-40114-011 | 704962 |        |
|      |            | 46, 58                   | Transformer, 2Kva, 480:120Vac          | 025-40114-001 | 739751 |        |
|      |            | 50                       | Transformer, 2Kva, 400:120Vac          | 025-40114-005 | 739754 |        |
|      |            |                          |                                        |               |        |        |
| 219  | A          | All                      | Fan Assy                               | 371-05278-801 | 704963 | 39     |
|      | B          | 17, 28,40, 46, 58        |                                        | 371-04179-813 | 772632 |        |
|      |            | 50, 65, 68               |                                        | 371-04179-812 | 692408 |        |
|      | C          | 50, 65, 68               |                                        | 371-04179-812 | 692408 |        |
|      |            | 40                       |                                        | 371-04179-813 | 772632 |        |
|      | D          | 40, 46, 50, 58, 65, 68   |                                        | 371-04179-812 | 692408 |        |
|      |            |                          |                                        |               |        |        |
|      |            |                          |                                        |               |        |        |

**TABLE 35 (CONT'D) - VSD CIRCUIT BREAKER DUAL SYSTEM (MODEL SPECIFIC)**

| ITEM | PIN 11     | VOLTAGE<br>(PIN 20 & 21)  | DESCRIPTION                   | PART NUMBER   | SAP     | FIGURE |
|------|------------|---------------------------|-------------------------------|---------------|---------|--------|
| 221  | A, B       | 17, 28, 46, 58            | Flash Control A & B 460V      | 031-02649-110 | 1090841 | 40     |
|      |            | 40, 50, 65, 68            | Flash Control A & B 380/400V  | 031-02649-111 | 1084658 |        |
|      | C          | 40, 50, 65, 68            | Flash Control C & D 380/400V  | 031-02649-112 | 1084657 |        |
|      | D          | 40, 65, 68                | Flash Control C & D 380/400V  | 031-02649-112 | 1084657 |        |
|      |            | 46, 58                    | Flash Control D 460V          | 031-02649-115 | 1090844 |        |
|      |            | 50                        | Transformer, 2Kva, 400:120Vac | 025-40114-005 | 739754  |        |
| 222  | A          | All                       | Power Assy 2 Compr            | 371-05279-101 | 773890  | 39     |
|      | B          | All                       |                               | 371-04181-101 | 772682  |        |
|      | C          | 40, 50, 65, 68            |                               | 371-04181-104 | 772685  |        |
|      | D          | 40, 46, 50, 58,<br>65, 68 |                               | 371-05679-101 | 774330  |        |
| 224  | A, B, C, D | All                       | Harness, Main                 | 571-05603-221 | 807139  | 42     |
| 225  | A, B,      | All                       | Trans Drive System #1         | 371-04178-365 | 772513  | 39     |
|      | C          | 40, 50, 65, 68            |                               | 371-04178-369 | 772515  |        |
|      | D          | 40, 46, 50, 58,<br>65, 68 |                               | 371-04178-369 | 772515  |        |
| 226  | A, B,      | All                       | Trans Drive System #2         | 371-04178-367 | 772514  | 39     |
|      | C          | 40, 50, 65, 68            |                               | 371-04178-378 | 772519  |        |
|      | D          | 40, 46, 50, 58,<br>65, 68 |                               | 371-04178-378 | 772519  |        |
| 227  | A, B, C, D | All                       | Fuseholder-Modular, 3-Pole    | 025-39952-000 | 343433  | 38     |
| 228  | A, B,      | All                       | Fuse, Semi, 630A, 700V        | 025-42142-000 | 645566  | 39     |
|      | C          | 40, 50, 65, 68            | Fuse, Semi, 800A, 700V        | 025-40763-000 | 739932  |        |
|      | D          | 40, 65, 68                | Fuse, Semi, 1000A, 700V       | 025-42601-000 | 703412  |        |
|      |            | 46, 58                    | Fuse, Semi, 900A, 700V        | 025-40786-000 | 739934  |        |
| 231  | A          | All                       | Wiring, Pwr, Mod A,B,C        | 571-05603-201 | 704518  | 39     |
|      | B          | All                       | Wiring, Pwr, Mod A,B,C        | 571-05603-205 | 692422  |        |
|      | C          | 40, 50, 65, 68            | Wiring, Pwr, Mod A,B,C        | 571-05603-209 | 807137  |        |
|      | D          | 40, 46, 50, 58,<br>65, 68 | Wiring, Pwr, Mod D            | 571-05604-201 | 825895  |        |
| 233  | A, B       | 17, 28, 46, 58            | Fuse, Cartridge Type 10 Amp   | 025-35905-000 | 739234  | 38     |
|      |            | 40, 50, 65, 68            | Fuse, Cartridge Type 12 Amp   | 025-35906-000 | 652698  |        |
|      | C          | 40, 50, 65, 68            | Fuse, Cartridge Type 12 Amp   | 025-35906-000 | 652698  |        |
|      | D          | 40, 65, 68                | Fuse, Cartridge Type 12 Amp   | 025-35906-000 | 652698  |        |
|      |            | 46, 58                    | Fuse, Cartridge Type 10 Amp   | 025-35905-000 | 739234  |        |
| 234  | B, C       | 50                        | Shield, C-H Breaker Terminal  | 024-36075-000 | 645408  | 40     |
| 239  | A, B       | All                       | Switch, DPST, Two Position    | 024-34951-000 | 736122  | 40     |
| 240  | A, B       | 17, 28, 46, 58            | Control VSD Logic Brd         | 031-02507-000 | 360014  | 40     |
|      |            | 40, 50, 65, 68            |                               | 031-02507-100 | 538835  |        |
|      | C          | 40, 50, 65, 68            |                               | 031-02507-000 | 360014  |        |
|      | D          | 40, 46, 50, 58,<br>65, 68 |                               | 031-02507-000 | 360014  |        |

**TABLE 36 - VSD SUPPLY TERMINAL BLOCK DUAL SYSTEM (MODEL SPECIFIC)**

| ITEM | PIN 11  | VOLTS                  | DESCRIPTION                        | PART NUMBER   | SAP    | FIGURE |
|------|---------|------------------------|------------------------------------|---------------|--------|--------|
| 200  | A, B    | All                    | Panel, A,B,C, Comm                 | 371-05603-100 | 774265 | *      |
|      | C       | 40, 50, 65, 68         |                                    |               |        |        |
|      | D       | 40, 46, 50, 58, 65, 68 | Panel, Com Parts                   | 371-05604-100 | 825926 |        |
| 201  | A, B    | All                    | Kit, Lugs, (2) #2 600Kcmil         | 371-05616-004 | 704505 | 40     |
|      | C       | 40, 50, 65, 68         | Kit, Lugs, (3) #2 600Kcmil         |               |        |        |
|      | D       | 40, 46, 50, 58, 65, 68 |                                    | 371-05616-006 | 704506 |        |
| 203  | A, B, C | All                    | Plate, Without C.B., Trident       | 371-05603-373 | 704517 | 40     |
|      | C       | 40, 50, 65, 68         |                                    |               |        |        |
|      | D       | 40, 46, 50, 58, 65, 68 |                                    |               |        |        |
| 204  | A, B    | All                    | Wiring, Pwr, Mod A,B,C             | 571-05603-202 | 704520 | 40     |
|      | C       | 40, 50, 65, 68         | Wiring, Pwr, Mod A,B,C             | 571-05603-210 | 704521 |        |
|      | D       | 40, 50, 65, 68         | Wiring, Pwr, Mod D                 | 571-05604-204 | 825893 |        |
|      |         | 46, 58                 | Wiring, Pwr, Mod D                 | 571-05604-202 | 847973 |        |
| 206  | A, B    | All                    | Lug, Elec Sgl Bbl, #4-500          | 025-32835-000 | 738755 | 38     |
|      | C       | 40, 50, 65, 68         |                                    |               |        |        |
|      | D       | 40, 46, 50, 58, 65, 68 |                                    |               |        |        |
| 207  | A       | All                    | Inductor Drive 2 Compr             | 025-42133-000 | 740060 | 39     |
|      | B       | All                    |                                    | 025-40742-000 | 739923 |        |
|      | C       | 40, 50, 65, 68         |                                    | 025-40742-000 | 739923 |        |
|      | D       | 40, 50, 65, 68         |                                    | 025-40741-000 | 739922 |        |
|      |         | 46, 58                 |                                    | 025-39676-000 | 342937 |        |
| 216  | A, B    | 17, 28, 40, 46, 58     | Control Trigger Board              | 031-02060-001 | 743858 | 38     |
|      |         | 50, 65, 68             |                                    | 031-02060-002 | 63166  |        |
|      | C       | 50, 65, 68             |                                    | 031-02060-002 | 63166  |        |
|      |         | 40                     |                                    | 031-02060-001 | 743858 |        |
|      | D       | 50, 65, 68             |                                    | 031-02060-002 | 63166  |        |
|      |         | 40, 46, 58             |                                    | 031-02060-001 | 743858 |        |
|      |         |                        |                                    |               |        |        |
| 217  | A       | 17, 28, 46, 58         | Transformer, 2Kva, 480:120Vac      | 025-40114-001 | 739751 | 38     |
|      |         | 40, 65                 | Transformer, 2Kva, 380:120Vac      | 025-40114-007 | 692407 |        |
|      |         | 68                     | Transformer P=374.0-374.0V 3 Phase | 025-40114-011 | 704962 |        |
|      |         | 50                     | Transformer, 2Kva, 400:120Vac      | 025-40114-005 | 739754 |        |
|      | B       | 17, 28, 46, 58         | Transformer, 2Kva, 480:120Vac      | 025-40114-001 | 739751 |        |
|      |         | 40, 65                 | Transformer, 2Kva, 380:120Vac      | 025-40114-007 | 692407 |        |
|      |         | 68                     | Transformer P=374.0-374.0V 3 Phase | 025-40114-011 | 704962 |        |
|      |         | 50                     | Transformer, 2Kva, 400:120Vac      | 025-40114-005 | 739754 |        |
|      | C       | 40, 65                 | Transformer, 2Kva, 380:120Vac      | 025-40114-007 | 692407 |        |
|      |         | 68                     | Transformer P=374.0-374.0V 3 Phase | 025-40114-011 | 704962 |        |
|      |         | 50                     | Transformer, 2Kva, 400:120Vac      | 025-40114-005 | 739754 |        |
|      | D       | 40, 65                 | Transformer, 2Kva, 380:120Vac      | 025-40114-007 | 692407 |        |
|      |         | 68                     | Transformer P=374.0-374.0V 3 Phase | 025-40114-011 | 704962 |        |
|      |         | 46, 58                 | Transformer, 2Kva, 480:120Vac      | 025-40114-001 | 739751 |        |
|      |         | 50                     | Transformer, 2Kva, 400:120Vac      | 025-40114-005 | 739754 |        |
| 219  | A       | All                    | Fan Assembly                       | 371-05278-801 | 704963 | 39     |
|      | B       | 17, 28, 40, 46, 58     |                                    | 371-04179-813 | 772632 |        |
|      |         | 50, 65, 68             |                                    | 371-04179-812 | 692408 |        |
|      | C       | 50, 65, 68             |                                    | 371-04179-812 | 692408 |        |
|      |         | 40                     |                                    | 371-04179-813 | 772632 |        |
|      | D       | 40, 46, 50, 58, 65, 68 |                                    | 371-04179-813 | 772632 |        |
|      |         |                        |                                    | 371-04179-812 | 692408 |        |

**TABLE 36 (CONT'D) - VSD SUPPLY TERMINAL BLOCK DUAL SYSTEM (MODEL SPECIFIC)**

| ITEM | PIN 11 | VOLTS                  | DESCRIPTION                  | PART NUMBER   | SAP     | FIGURE |
|------|--------|------------------------|------------------------------|---------------|---------|--------|
| 221  | A      | 17, 28, 46, 58         | Flash Control A & B 460V     | 031-02649-110 | 1090841 | 40     |
|      |        | 40, 50, 65, 68         | Flash Control A & B 380/400V | 031-02649-111 | 1084658 |        |
|      | B      | 17, 28, 46, 58         | Flash Control A & B 460V     | 031-02649-110 | 1090841 |        |
|      |        | 40, 50, 65, 68         | Flash Control A & B 380/400V | 031-02649-111 | 1084658 |        |
|      | C      | 40, 50, 65, 68         | Flash Control C & D 380/400V | 031-02649-112 | 1084657 |        |
|      | D      | 40, 50, 65, 68         | Flash Control C & D 380/400V |               |         |        |
|      |        | 46, 58                 | Flash Control D 460V         | 031-02649-115 | 1090844 |        |
| 222  | A      | All                    | Power Assy 2 Compr           | 371-05279-101 | 773890  | 39     |
|      | B      | All                    |                              | 371-04181-101 | 772682  |        |
|      | C      | 40, 50, 65, 68         |                              | 371-04181-104 | 772685  |        |
|      | D      | 40, 46, 50, 58, 65, 68 |                              | 371-05679-101 | 774330  |        |
| 224  | A, B   | All                    | Harness, Main, Trident       | 571-05603-221 | 807139  | 42     |
|      | C      | 40, 50, 65, 68         |                              | 571-05604-221 | 825889  |        |
|      | D      | 40, 46, 50, 58, 65, 68 |                              |               |         |        |
| 225  | A, B   | All                    | Trans Drive System #1        | 371-04178-365 | 772513  | 39     |
|      | C      | 40, 50, 65, 68         |                              | 371-04178-369 | 772515  |        |
|      | D      | 40, 46, 50, 58, 65, 68 |                              |               |         |        |
| 226  | A, B   | All                    | Trans Drive System #2        | 371-04178-367 | 772514  | 39     |
|      | C      | 40, 50, 65, 68         |                              | 371-04178-378 | 772519  |        |
|      | D      | 40, 46, 50, 58, 65, 68 |                              |               |         |        |
| 227  | A, B   | All                    | Fuseholder-Modular, 3-Pole   | 025-39952-000 | 343433  | 38     |
|      | C      | 40, 50, 65, 68         |                              |               |         |        |
|      | D      | 40, 46, 50, 58, 65, 68 |                              |               |         |        |
| 228  | A, B   | All                    | Fuse, Semi, 630A, 700V       | 025-42142-000 | 645566  | 39     |
|      | C      | 40, 50, 65, 68         | Fuse, Semi, 800A, 700V       | 025-40763-000 | 739932  |        |
|      | D      | 40, 50, 65, 68         | Fuse, Semi, 1000A, 700V      | 025-42601-000 | 703412  |        |
|      |        | 46, 58                 | Fuse, Semi, 900A, 700V       | 025-40786-000 | 739934  |        |
| 231  | A      | All                    | Wiring, Pwr, Mod A,B,C       | 571-05603-201 | 704518  | 39     |
|      | B      | All                    | Wiring, Pwr, Mod A,B,C       | 571-05603-205 | 692422  |        |
|      | C      | 40, 50, 65, 68         | Wiring, Pwr, Mod A,B,C       | 571-05603-209 | 807137  |        |
|      | D      | 40, 46, 50, 58, 65, 68 | Wiring, Pwr, Mod D           | 571-05604-201 | 825895  |        |
| 233  | A, B   | 17, 28, 46, 58         | Fuse, Cartridge Type 10 Amp  | 025-35905-000 | 739234  | 38     |
|      |        | 40, 50, 65, 68         | Fuse, Cartridge Type 12 Amp  | 025-35906-000 | 652698  |        |
|      | C      | 40, 50, 65, 68         |                              |               |         |        |
|      | D      | 40, 50, 65, 68         | Fuse, Cartridge Type 12 Amp  | 025-35906-000 | 652698  |        |
|      |        | 46, 58                 | Fuse, Cartridge Type 10 Amp  | 025-35905-000 | 739234  |        |
| 239  | A, B   | All                    | Switch, DPST, Two Position   | 024-34951-000 | 736122  | 40     |
|      | C      | 40, 50, 65, 68         |                              |               |         |        |
|      | D      | 40, 46, 50, 58, 65, 68 |                              |               |         |        |
| 240  | A, B   | All                    | Control VSD Logic Brd        | 031-02507-000 | 360014  | 40     |
|      | C      | 40, 50, 65, 68         |                              |               |         |        |
|      | D      | 40, 46, 50, 58, 65, 68 |                              |               |         |        |

**TABLE 37 - VSD SUPPLY TERMINAL BLOCK (COMMON)**

| ITEM | DESCRIPTION                      | PART NUMBER   | SAP     | FIGURE |
|------|----------------------------------|---------------|---------|--------|
| 1    | Kit-Enclosure, Trident           | 371-05603-301 | 774267  | 38     |
| 5    | Relay Control DPST-No, 120 Vac   | 024-30441-000 | 664298  | 38     |
| 6    | Standoff Drive 503Hp             | 371-03789-371 | 772343  | 39     |
| 7    | Transformer Class 2              | 025-27911-000 | 1312    | 38     |
| 8    | Shielded 2 Compr Right           | 071-05183-000 | 749197  | 40     |
|      | Shield 3 Compr Right (Frame D)   | 071-05187-000 | 749199  |        |
| 9    | Shielded 2/3 Compr               | 071-05184-000 | 749198  | 40     |
| 10   | Bracket, Shield                  | 371-05603-389 | 774279  | 40     |
| 11   | Bracket, Shield                  | 371-05603-392 | 774280  | 40     |
| 15   | Fuseholder-Modular, 1-Pole       | 025-39951-000 | 359985  | 38     |
| 17   | Control Voltage                  | 031-02453-000 | 743895  | 38     |
| 20   | Control Relay Board              | 031-02479-001 | 340702  | 40     |
| 22   | Resistor, Power Wirewound        | 025-35953-000 | 117824  | 38     |
| 23   | Capacitor Dv/Dt Network          | 025-39806-000 | 251765  | 38     |
| 24   | Harness Dvdt 2 Compr             | 571-04178-211 | 806999  | 38     |
| 25   | Thermal Pad, Resistor, Wide      | 028-15299-000 | 742121  | 38     |
| 28   | Control, Control Board           | 331-03478-102 | 5003222 | 40     |
| 30   | Standoff Drive                   | 371-04178-371 | 772516  | 39     |
| 31   | Control Tme Bus Isolator         | 031-01624-000 | 743779  | 38     |
| 32   | Gasket, Field Conn               | 028-16531-000 | 692397  | 38     |
| 33   | Gasket Customer Conn             | 028-15247-000 | 742106  | 38     |
| 34   | Gasket Circuit Brkt 2 Compr      | 028-15824-000 | 651576  | 40     |
|      | Gasket Circuit Breaker (Frame D) | 028-15248-000 | 742107  |        |
| 37   | Gasket Coil Drive                | 028-15251-000 | 742109  | 39     |
| 39   | Terminal Block                   | 371-05603-356 | 774277  | 38     |
| 41   | Cable Trig To Gate               | 571-04178-251 | 427924  | 38,39  |
| 42   | Cable Gate Driver                | 571-04178-281 | 427925  | 39     |
| 43   | Cable Gate Driver                | 571-04178-282 | 427926  | 39     |
| 59   | Eeprom, VSD Logic Board          | 031-03422-010 | 947512  | 40     |
| 61   | Switch Keypad                    | 024-34930-000 | 247624  | 40     |
| 62   | Display LCD                      | 031-02508-000 | 743925  | 40     |
| 64   | Clamp Ribbon Wire, Gray          | 025-25156-000 | 737712  | 40     |
| 68   | Cable Ribbon Display To Micro    | 571-05603-261 | 1085133 | 40,42  |
|      | Cable Display/Cont Bd (Frame D)  | 571-04178-268 | 807013  |        |
| 69   | Cable Ribbon Keypad To Micro     | 571-05603-262 | 1085134 | 40,42  |
|      | Cable Keypad/Cont Bd (Frame D)   | 571-04178-269 | 807014  |        |
| 70   | Cable Ribbon Relay               | 571-04178-263 | 807008  | 40     |
| 71   | Cable Logic To Control           | 571-04178-271 | 807015  | 42     |
| 72   | Stepper Motor (Ets 250) EEV      | 031-02742-000 | 744082  | 38     |
| 74   | Rail Mtg Valve Controller        | 071-04178-363 | 748851  | 38     |
| 76   | Clamp, End For 35Mm X 7Mm        | 025-29189-000 | 117471  | 38     |
| 77   | Cable Ribbon Relay               | 571-04178-264 | 807009  | 40     |
| 80   | Ferr Splice Cap For Use With     | 025-10434-000 | 737259  | 38     |
| 82   | Ferr Splice Cap For Use With     | 025-10372-000 | 737258  | 38,41  |
| 84   | Bush Snap 7/8 Id Hole            | 025-12016-000 | 737325  | 38     |

**TABLE 37 (CONT'D) - VSD SUPPLY TERMINAL BLOCK DUAL SYSTEM (COMMON)**

| ITEM | DESCRIPTION                      | PART NUMBER   | SAP    | FIGURE |
|------|----------------------------------|---------------|--------|--------|
| 86   | Cable, Shielded                  | 571-05603-291 | 807140 | *      |
|      | Cable, Shielded, Mod D (Frame D) | 571-05604-291 | 825888 |        |
| 88   | Fuse, Semi Conductor             | 025-38523-000 | 739590 | 38     |
| 90   | Fuse, Cartridge Type 15 Amp      | 025-35907-000 | 117822 | 38     |
| 91   | Fuse, Cartridge Type 10 Amp      | 025-35905-000 | 739234 | 38     |
| 92   | Fuse, Cartridge Type 15 Amp      | 025-34141-000 | 739008 | 38     |
| 93   | Fuse, Cartridge Type 20 Amp      | 025-35908-000 | 117823 | 38     |
| 94   | Fuse, Cartridge Type 6 Amp       | 025-35902-000 | 264466 | 38     |
| 95   | Base, Flat Cable Mount           | 025-42113-000 | 644640 | 40     |
| 96   | Base, Flat Cable Mount           | 025-42114-000 | 644641 | 40     |
| 116  | Block Term Base Flat             | 025-20944-000 | 62696  | 38     |
| 117  | Block Term End                   | 025-20946-000 | 618097 | 38     |
| 127  | Heat Exchanger Drive             | 371-02767-389 | 772126 | 41     |
| 128  | Pump Up26-99F 115V 6H 1Ph 60Hz   | 026-33890-000 | 3590   | 41     |
| 129  | Reservoir                        | 371-05603-361 | 774278 | 41     |
| 130  | Valve Boiler Drain 1/2 Npte      | 022-10090-000 | 692414 | 41     |
| 138  | Nipple Pipe 1-1/2 Sch 40 X       | 023-18209-000 | 60695  | 41     |
| 139  | Flange Set Scr Oval 1-1/2        | 023-20283-000 | 733193 | 41     |
| 140  | Connr, Conduit Flex Angle        | 025-31316-001 | 144731 | 41     |
| 141  | Fitting, Hose, Straight, Nylon   | 023-20285-000 | 692417 | 41     |
| 142  | Fitting, Flare, 90 Deg, Brass    | 023-20284-000 | 692418 | 41     |
| 143  | Clamp Hose 11/16 Min Dia         | 023-08856-000 | 617439 | 41     |
| 144  | Tube Plastic, Polyurethane       | 028-14491-000 | 741890 | 41     |
| 145  | Manifold, Distribution           | 023-25218-000 | 692419 | 41     |
| 147  | Conduit Elec Flex 1/2 Liquid     | 025-30473-001 | 738505 | 41     |
| 148  | Bracket Clamp Fill Pipe VSD      | 071-02291-420 | 748189 | 41     |
| 149  | Clamp Hose 2-5/8 Min Dia         | 021-19150-000 | 564227 | 41     |
| 150  | Clamp Tube 1" Od, Vinyl          | 021-30744-000 | 730644 | 41     |

**NOTE:** Items with an \* are NOT represented.



**TABLE 38 - VSD SUPPLY TERMINAL BLOCK DUAL SYSTEM (MODEL SPECIFIC)**

| ITEM       | PIN 11  | VOLTAGE<br>(PIN 20 & 21) | DESCRIPTION                   | PART NUMBER   | SAP    | FIGURE |
|------------|---------|--------------------------|-------------------------------|---------------|--------|--------|
| <b>200</b> | A, B    | All                      | Panel, A,B,C, Comm            | 371-05603-100 | 774265 | -      |
|            | C       | 40, 50, 65, 68           |                               |               |        |        |
|            | D       | 40, 46, 50, 58, 65, 68   | Panel, Trident, Com Parts     | 371-05604-100 | 825926 |        |
| <b>201</b> | A, B    | All                      | Kit, Lugs, (2) #2 600Kcmil    | 371-05616-004 | 704505 | 40     |
|            | C       | 40, 50, 65, 68           | Kit, Lugs, (3) #2 600Kcmil    | 371-05616-006 | 704506 |        |
| <b>203</b> | D       | 40, 46, 50, 58, 65, 68   | Plate, without C.B.           | 371-05603-373 | 704517 | 40     |
|            | A, B, C | All                      |                               |               |        |        |
|            | C       | 40, 50, 65, 68           |                               |               |        |        |
|            | D       | 40, 46, 50, 58, 65, 68   |                               |               |        |        |
| <b>204</b> | A, B    | All                      | Wiring, Pwr, Mod A,B,C        | 571-05603-202 | 704520 | 40     |
|            | C       | 40, 50, 65, 68           | Wiring, Pwr, Mod A,B,C        | 571-05603-210 | 704521 |        |
|            | D       | 40, 50, 65, 68           | Wiring, Pwr, Mod D            | 571-05604-204 | 825893 |        |
|            |         | 46, 58                   | Wiring, Pwr, Mod D            | 571-05604-202 | 847973 |        |
| <b>206</b> | All     | All                      | Lug, Elec Sgl Bbl, #4-500     | 025-32835-000 | 738755 | 38     |
| <b>207</b> | A       | All                      | Inductor, Drive 2 Compr       | 025-42133-000 | 740060 | 39     |
|            | B       | All                      |                               | 025-40742-000 | 739923 |        |
|            | C       | 40, 50, 65, 68           |                               | 025-40742-000 | 739923 |        |
|            | D       | 40, 50, 65, 68           |                               | 025-40741-000 | 739922 |        |
|            |         | 46, 58                   |                               | 025-39676-000 | 342937 |        |
| <b>216</b> | A, B    | 17, 28, 40, 46, 58       | Control, Trigger Board        | 031-02060-001 | 743858 | 38     |
|            |         | 50, 65, 68               |                               | 031-02060-002 | 63166  |        |
|            | C       | 50, 65, 68               |                               | 031-02060-002 | 63166  |        |
|            |         | 40                       |                               | 031-02060-001 | 743858 |        |
|            | D       | 50, 65, 68               |                               | 031-02060-002 | 63166  |        |
|            |         | 40, 46, 58               |                               | 031-02060-001 | 743858 |        |
|            |         |                          |                               |               |        |        |
| <b>217</b> | A       | 17, 28, 46, 58           | Transformer, 2Kva, 480:120Vac | 025-40114-001 | 739751 | 38     |
|            |         | 40, 65                   | Transformer, 2Kva, 380:120Vac | 025-40114-007 | 692407 |        |
|            |         | 68                       | Transformer, P=374.0-374.0V   | 025-40114-011 | 704962 |        |
|            |         | 50                       | Transformer, 2Kva, 400:120Vac | 025-40114-005 | 739754 |        |
|            | B       | 17, 28, 46, 58           | Transformer, 2Kva, 480:120Vac | 025-40114-001 | 739751 |        |
|            |         | 40, 65                   | Transformer, 2Kva, 380:120Vac | 025-40114-007 | 692407 |        |
|            |         | 68                       | Transformer, P=374.0-374.0V   | 025-40114-011 | 704962 |        |
|            |         | 50                       | Transformer, 2Kva, 400:120Vac | 025-40114-005 | 739754 |        |
|            | C       | 40, 65                   | Transformer, 2Kva, 380:120Vac | 025-40114-007 | 692407 |        |
|            |         | 68                       | Transformer, P=374.0-374.0V   | 025-40114-011 | 704962 |        |
|            |         | 50                       | Transformer, 2Kva, 400:120Vac | 025-40114-005 | 739754 |        |
|            | D       | 40, 65                   | Transformer, 2Kva, 380:120Vac | 025-40114-007 | 692407 |        |
|            |         | 68                       | Transformer, P=374.0-374.0V   | 025-40114-011 | 704962 |        |
|            |         | 46, 58                   | Transformer, 2Kva, 480:120Vac | 025-40114-001 | 739751 |        |
|            |         | 50                       | Transformer, 2Kva, 400:120Vac | 025-40114-005 | 739754 |        |



**TABLE 38 (CONT'D) - VSD SUPPLY TERMINAL BLOCK DUAL SYSTEM (MODEL SPECIFIC)**

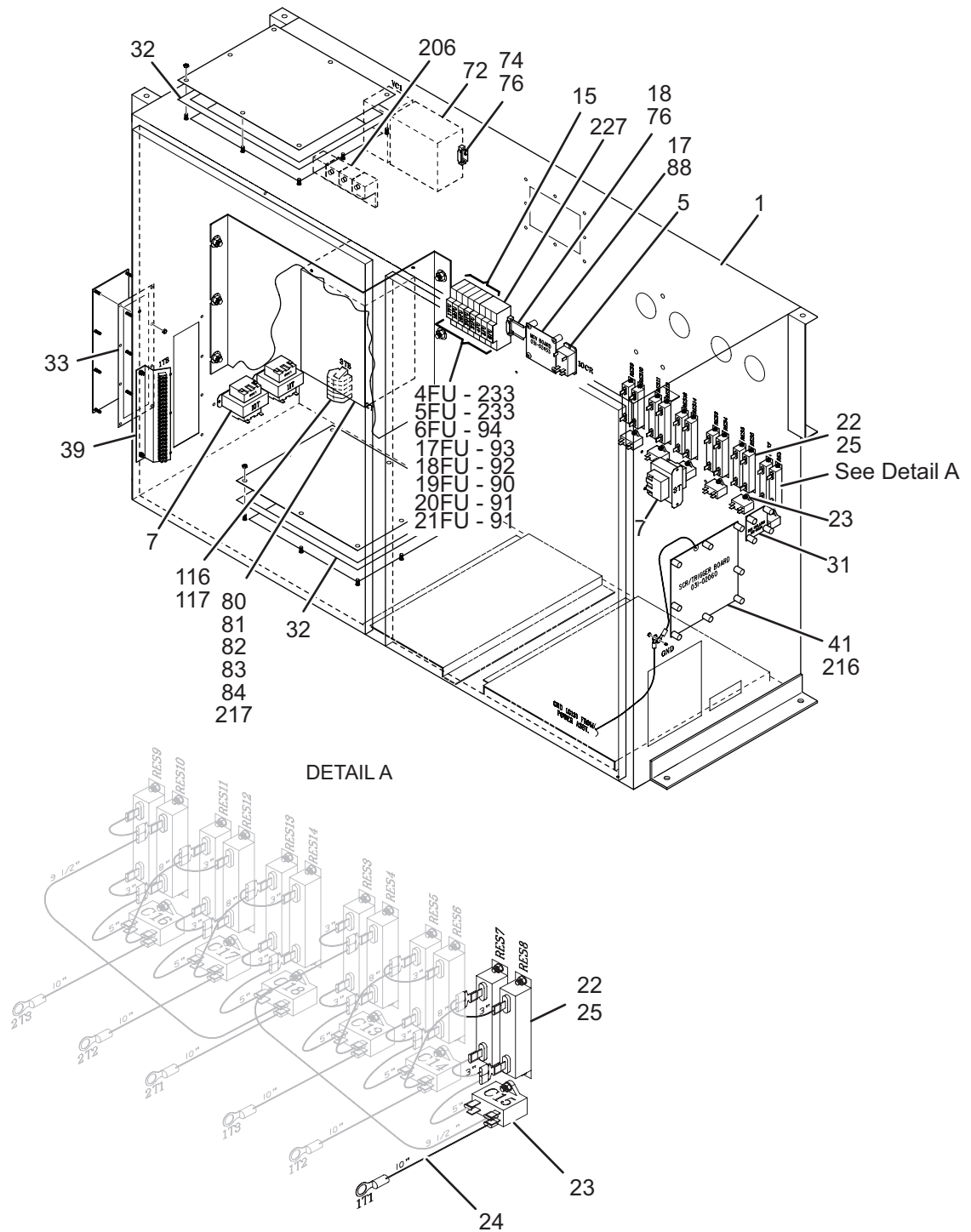
| ITEM           | PIN 11 | VOLTAGE<br>(PIN 20 & 21)     | DESCRIPTION                  | PART NUMBER            | SAP            | FIGURE |                          |
|----------------|--------|------------------------------|------------------------------|------------------------|----------------|--------|--------------------------|
| 219            | A      | All                          | Fan Assembly                 | 371-05278-801          | 704963         | 39     |                          |
|                | B      | 17, 28, 40, 46, 58           |                              | 371-04179-813          | 772632         |        |                          |
|                |        | 50, 65, 68                   |                              | 371-04179-812          | 692408         |        |                          |
|                | C      | 50, 65, 68                   |                              | 371-04179-812          | 692408         |        |                          |
|                |        | 40                           |                              | 371-04179-813          | 772632         |        |                          |
|                |        | D                            |                              | 40, 46, 50, 58, 65, 68 | 371-04179-812  |        | 692408                   |
|                | 221    |                              |                              | A                      | 17, 28, 46, 58 |        | Flash Control A & B 460V |
| 40, 50, 65, 68 |        | Flash Control A & B 380/400V | 031-02649-111                |                        | 1084658        |        |                          |
| B              |        | 17, 28, 46, 58               | Flash Control A & B 460V     | 031-02649-110          | 1090841        |        |                          |
|                |        | 40, 50, 65, 68               | Flash Control A & B 380/400V | 031-02649-111          | 1084658        |        |                          |
| C              |        | 40, 50, 65, 68               | Flash Control C & D 380/400V | 031-02649-112          | 1084657        |        |                          |
| D              |        | 40, 50, 65, 68               | Flash Control C & D 380/400V | 031-02649-112          | 1084657        |        |                          |
|                |        | 46, 58                       | Flash Control D 460V         | 031-02649-115          | 1090844        |        |                          |
| 222            | A      | All                          | Power Assy 2 Compr           | 371-05279-101          | 773890         | 39     |                          |
|                | B      | All                          |                              | 371-04181-101          | 772682         |        |                          |
|                | C      | 40, 50, 65, 68               |                              | 371-04181-104          | 772685         |        |                          |
|                | D      | 40, 46, 50, 58, 65, 68       |                              | 371-05679-101          | 774330         |        |                          |
| 224            | A, B   | All                          | Harness, Main                | 571-05603-221          | 807139         | *      |                          |
|                | C      | 40, 50, 65, 68               |                              | 571-05604-221          | 825889         |        |                          |
|                | D      | 40, 46, 50, 58, 65, 68       |                              |                        |                |        |                          |
| 225            | A, B   | All                          | Trans Drive System #1        | 371-04178-365          | 772513         | 39     |                          |
|                | C      | 40, 50, 65, 68               |                              | 371-04178-369          | 772515         |        |                          |
|                | D      | 40, 46, 50, 58, 65, 68       |                              | 371-04178-369          | 772515         |        |                          |
| 226            | A, B   | All                          | Trans Drive System #2        | 371-04178-367          | 772514         | 39     |                          |
|                | C      | 40, 50, 65, 68               |                              | 371-04178-378          | 772519         |        |                          |
|                | D      | 40, 46, 50, 58, 65, 68       |                              |                        |                |        |                          |
| 227            | All    | All                          | Fuseholder-Modular, 3-Pole   | 025-39952-000          | 343433         | 38     |                          |
| 228            | A, B   | All                          | Fuse, Semi, 630A, 700V       | 025-42142-000          | 645566         | 39     |                          |
|                | C      | 40, 50, 65, 68               | Fuse, Semi, 800A, 700V       | 025-40763-000          | 739932         |        |                          |
|                | D      | 40, 50, 65, 68               | Fuse, Semi, 1000A, 700V      | 025-42601-000          | 703412         |        |                          |
|                |        | 46, 58                       | Fuse, Semi, 900A, 700V       | 025-40786-000          | 739934         |        |                          |
| 231            | A      | All                          | Wiring, Pwr, Mod A,B,C       | 571-05603-201          | 704518         | 39     |                          |
|                | B      | All                          |                              | 571-05603-205          | 692422         |        |                          |
|                | C      | 40, 50, 65, 68               |                              | 571-05603-209          | 807137         |        |                          |
|                | D      | 40, 46, 50, 58, 65, 68       |                              | 571-05604-201          | 825895         |        |                          |
| 233            | A, B   | 17, 28, 46, 58               | Fuse, Cartridge Type 10 Amp  | 025-35905-000          | 739234         | 38     |                          |
|                |        | 40, 50, 65, 68               | Fuse, Cartridge Type 12 Amp  | 025-35906-000          | 652698         |        |                          |
|                | C      | 40, 50, 65, 68               |                              |                        |                |        |                          |
|                | D      | 40, 50, 65, 68               | Fuse, Cartridge Type 10 Amp  | 025-35905-000          | 739234         |        |                          |
|                |        | 46, 58                       |                              |                        |                |        |                          |
| 239            | All    | All                          | Switch, Dpst, Two Position   | 024-34951-000          | 736122         | 40     |                          |
| 240            | All    | All                          | Control VSD Logic Brd        | 031-02507-000          | 360014         | 40     |                          |

**TABLE 39 - VSD DUAL SYSTEM SERVICE KITS**

| <b>VSD MODEL NUMBER</b> | <b>POWER ASSEMBLY KIT</b> | <b>LOGIC BOARD KIT</b> |
|-------------------------|---------------------------|------------------------|
| <b>TVP2CMPXW-50A</b>    | 371-05279-402             | 331-02507-611          |
| <b>TVP2CMPXW-50B</b>    | 371-04181-407             |                        |
| <b>TVP2CMPXW-50C</b>    | 371-04181-408             | 331-02507-612          |
| <b>TVP2CMPXW-65A</b>    | 371-05279-402             | 331-02507-611          |
| <b>TVP2CMPXW-65B</b>    | 371-04181-407             |                        |
| <b>TVP2CMPXW-65C</b>    | 371-04181-408             | 331-02507-612          |
| <b>TVP2CMPXW-68A</b>    | 371-05279-402             | 331-02507-611          |
| <b>TVP2CMPXW-68B</b>    | 371-04181-407             |                        |
| <b>TVP2CMPXW-68C</b>    | 371-04181-408             | 331-02507-612          |
| <b>TVP2CMPBW-40C</b>    | 371-04181-408             | 331-02507-612          |
| <b>TVP2CMPBW-50A</b>    | 371-05279-402             | 331-02507-611          |
| <b>TVP2CMPBW-50B</b>    | 371-04181-407             |                        |
| <b>TVP2CMPBW-50C</b>    | 371-04181-408             | 331-02507-612          |
| <b>TVP2CMPBW-65A</b>    | 371-05279-402             | 331-02507-611          |
| <b>TVP2CMPBW-65B</b>    | 371-04181-407             |                        |
| <b>TVP2CMPBW-65C</b>    | 371-04181-408             | 331-02507-612          |
| <b>TVP2CMPBW-68A</b>    | 371-05279-402             | 331-02507-611          |
| <b>TVP2CMPBW-68B</b>    | 371-04181-407             |                        |
| <b>TVP2CMPBW-68C</b>    | 371-04181-408             | 331-02507-612          |
| <b>TVP2CMPDW-50A</b>    | 371-05279-402             | 331-02507-611          |
| <b>TVP2CMPDW-50B</b>    | 371-04181-407             |                        |
| <b>TVP2CMPDW-50C</b>    | 371-04181-408             | 331-02507-612          |
| <b>TVP2CMPDW-65A</b>    | 371-05279-402             | 331-02507-611          |
| <b>TVP2CMPDW-65B</b>    | 371-04181-407             |                        |
| <b>TVP2CMPDW-65C</b>    | 371-04181-408             | 331-02507-612          |
| <b>TVP2CMPDW-68A</b>    | 371-05279-402             | 331-02507-611          |
| <b>TVP2CMPDW-68B</b>    | 371-04181-407             |                        |
| <b>TVP2CMPDW-68C</b>    | 371-04181-408             | 331-02507-612          |

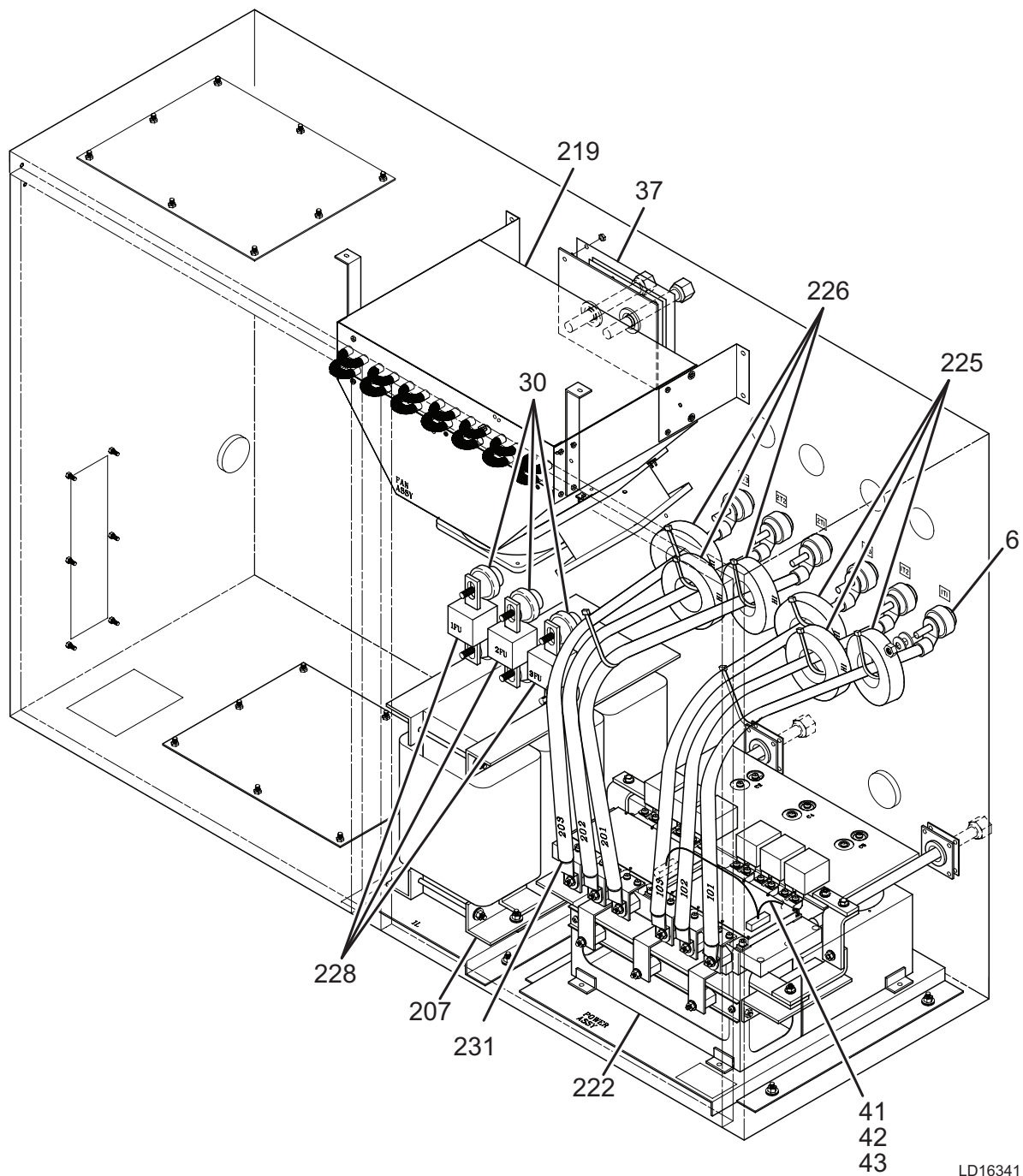
**TABLE 40 - VSD DUAL SYSTEM SERVICE KIT COMPONENTS**

| ITEM       | DESCRIPTION                        | YORK PART NUMBER | SAP PART NUMBER | QUANTITY |
|------------|------------------------------------|------------------|-----------------|----------|
| <b>250</b> | Kit, VSD Logic Board               | 331-02507-610    | 865548          | -        |
|            | Board, Logic                       | 031-02507-000    | 360014          | 1        |
|            | Flash, VSD Logic U52               | 031-02649-010    | 743997          | 1        |
|            | EPROM, VSD Logic U39               | 031-02522-010    | 743927          | 1        |
| <b>250</b> | Kit, VSD Logic Board               | 331-02507-611    | 865549          | -        |
|            | Board, Logic                       | 031-02507-100    | 538835          | 1        |
|            | Flash, VSD Logic U52               | 031-02649-011    | 743998          | 1        |
|            | EPROM, VSD Logic U39               | 031-02522-010    | 743927          | 1        |
| <b>250</b> | Kit, VSD Logic Board               | 331-02507-612    | 865550          | -        |
|            | Board, Logic                       | 031-02507-000    | 360014          | 1        |
|            | Flash, VSD Logic U52               | 031-02649-012    | 743999          | 1        |
|            | EPROM, VSD Logic U39               | 031-02522-010    | 743927          | 1        |
| <b>250</b> | Kit, VSD Logic Board               | 331-02507-618    |                 | -        |
|            | Board, Logic                       | 031-02507-000    |                 | 1        |
|            | Flash, VSD Logic U52               | 031-02649-110    |                 | 1        |
|            | EPROM, VSD Logic U35               | 035-21738-000    |                 | 1        |
| <b>250</b> | Kit, VSD Logic Board               | 331-02507-619    |                 | -        |
|            | Board, Logic                       | 031-02507-100    |                 | 1        |
|            | Flash, VSD Logic U52               | 031-02649-111    |                 | 1        |
|            | EPROM, VSD Logic U35               | 031-03422-010    |                 | 1        |
| <b>250</b> | Kit, VSD Logic Board               | 331-02507-620    |                 | -        |
|            | Board, Logic                       | 031-02507-000    |                 | 1        |
|            | Flash, VSD Logic U52               | 031-02649-112    |                 | 1        |
|            | EPROM, VSD Logic U35               | 031-03422-010    |                 | 1        |
| <b>250</b> | Kit, VSD Logic Board               | 331-02507-621    |                 | -        |
|            | Board, Logic                       | 031-02507-000    |                 | 1        |
|            | Flash, VSD Logic U52               | 031-02649-115    |                 | 1        |
|            | EPROM, VSD Logic U35               | 031-03422-010    |                 | 1        |
| <b>260</b> | Kit, VSD Power Assembly (225-232A) | 371-05279-402    | 865758          | -        |
|            | Power Assembly, VSD                | 371-05279-101    | 773890          | 1        |
|            | Plug, FLA 5/8                      | 023-22713-000    | 733711          | 2        |
|            | Coolant, Inhibitor, 1 gallon       | 013-04129-000    | 729086          | 2        |
| <b>260</b> | Kit, VSD Power Assembly (283A)     | 371-05279-407    | -               | -        |
|            | Power Assembly, VSD                | 371-04181-101    | 772682          | 1        |
|            | Plug, FLA 5/8                      | 023-22713-000    | 733711          | 2        |
|            | Coolant, Inhibitor, 1 gallon       | 013-04129-000    | 729086          | 2        |
| <b>260</b> | Kit, VSD Power Assembly (338A)     | 371-05279-408    | -               | -        |
|            | Power Assembly, VSD                | 371-04181-104    | 772685          | 1        |
|            | Plug, FLA 5/8                      | 023-22713-000    | 733711          | 2        |
|            | Coolant, Inhibitor, 1 gallon       | 013-04129-000    | 729086          | 2        |
| <b>260</b> | Kit, VSD Power Assembly (412A)     | 371-05679-402    | 865760          | -        |
|            | Power Assembly, VSD                | 371-05679-101    | 774330          | 1        |
|            | Plug, FLA 5/8                      | 023-22713-000    | 733711          | 2        |
|            | Coolant, Inhibitor, 1 gallon       | 013-04129-000    | 729086          | 2        |



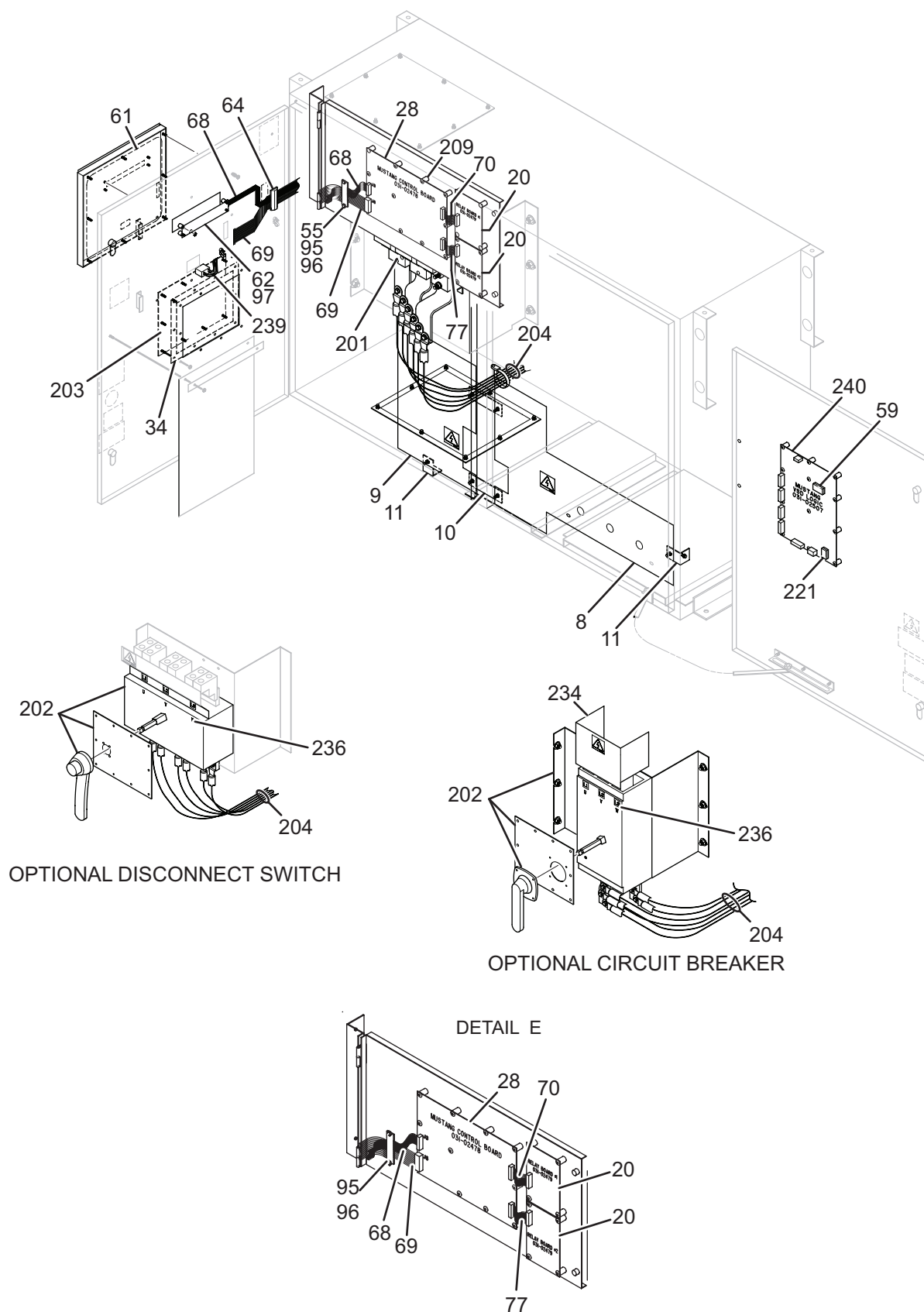
LD16340a

**FIGURE 38 - VSD DUAL SYSTEM**



LD16341

**FIGURE 39 - VSD DUAL SYSTEM**



LD16343a

**FIGURE 40 - VSD DUAL SYSTEM**

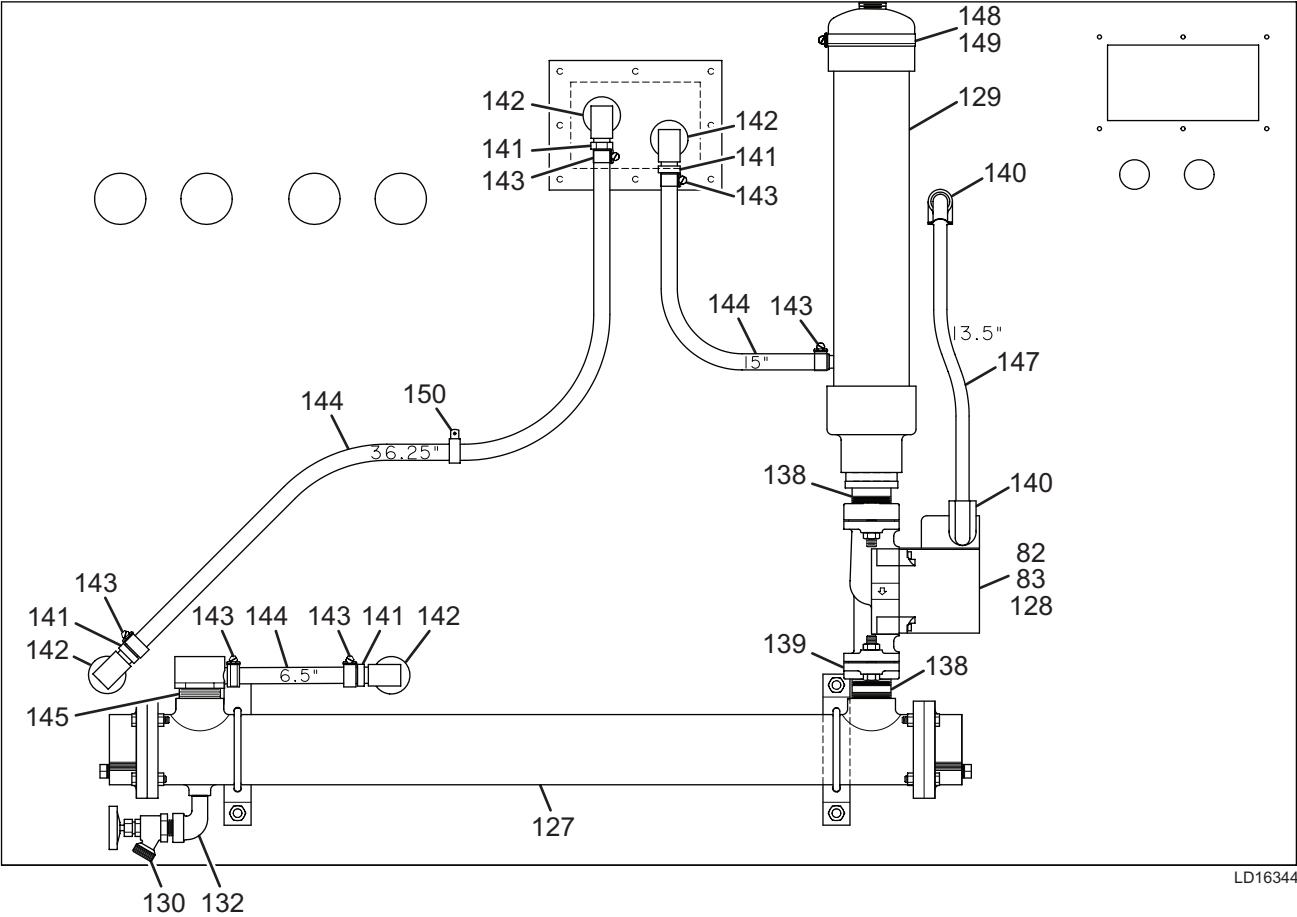


FIGURE 41 - VSD DUAL SYSTEM

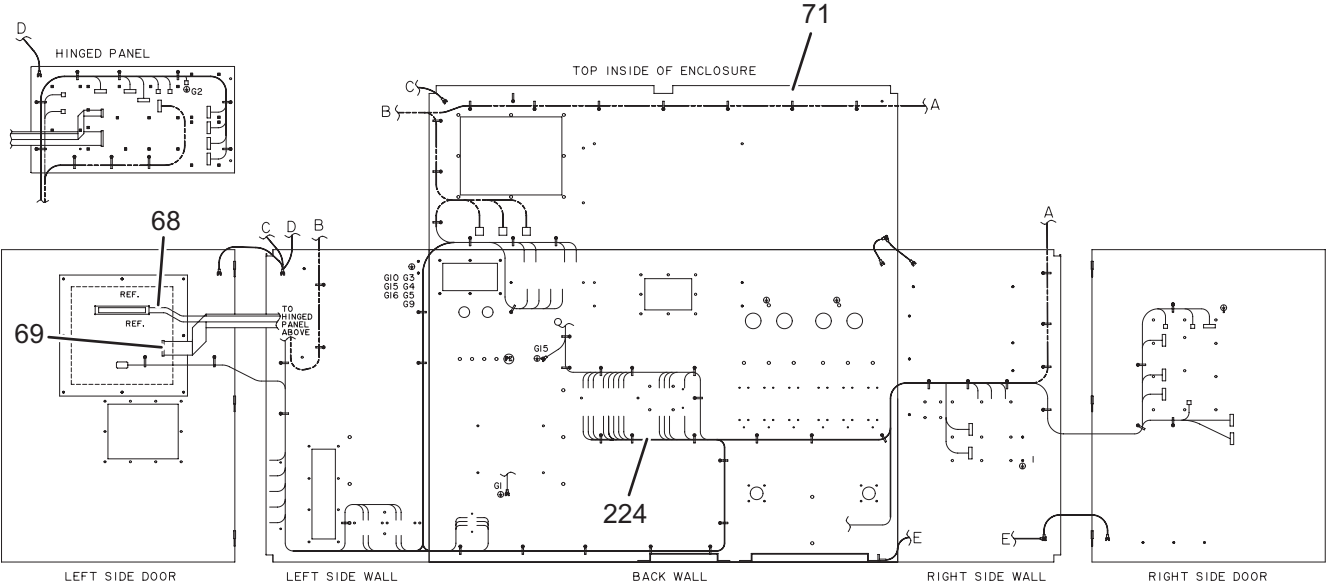
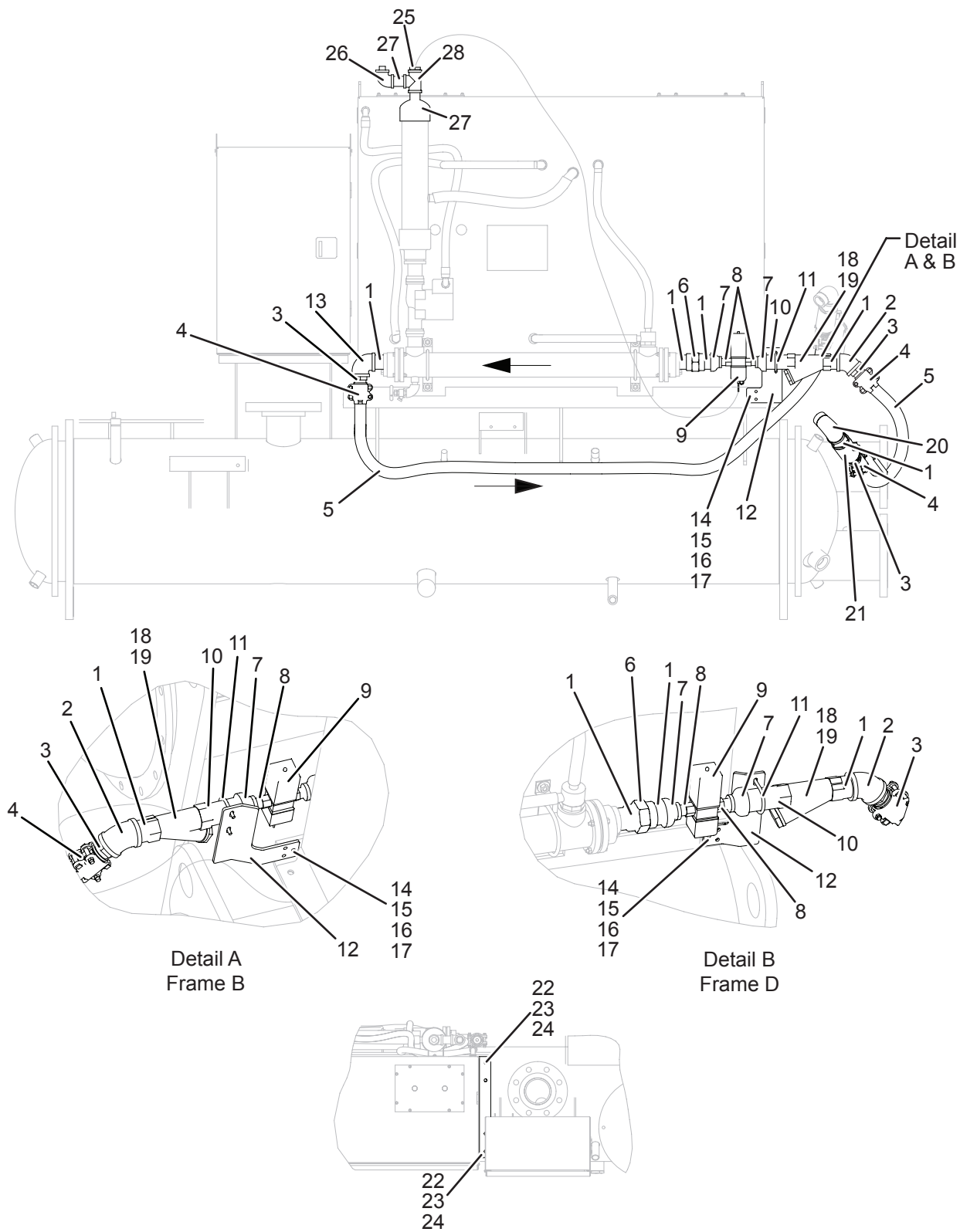


FIGURE 42 - VSD DUAL SYSTEM DUAL SYSTEM

**TABLE 41 - VSD INSTALLATION / COOLING SINGLE SYSTEM**

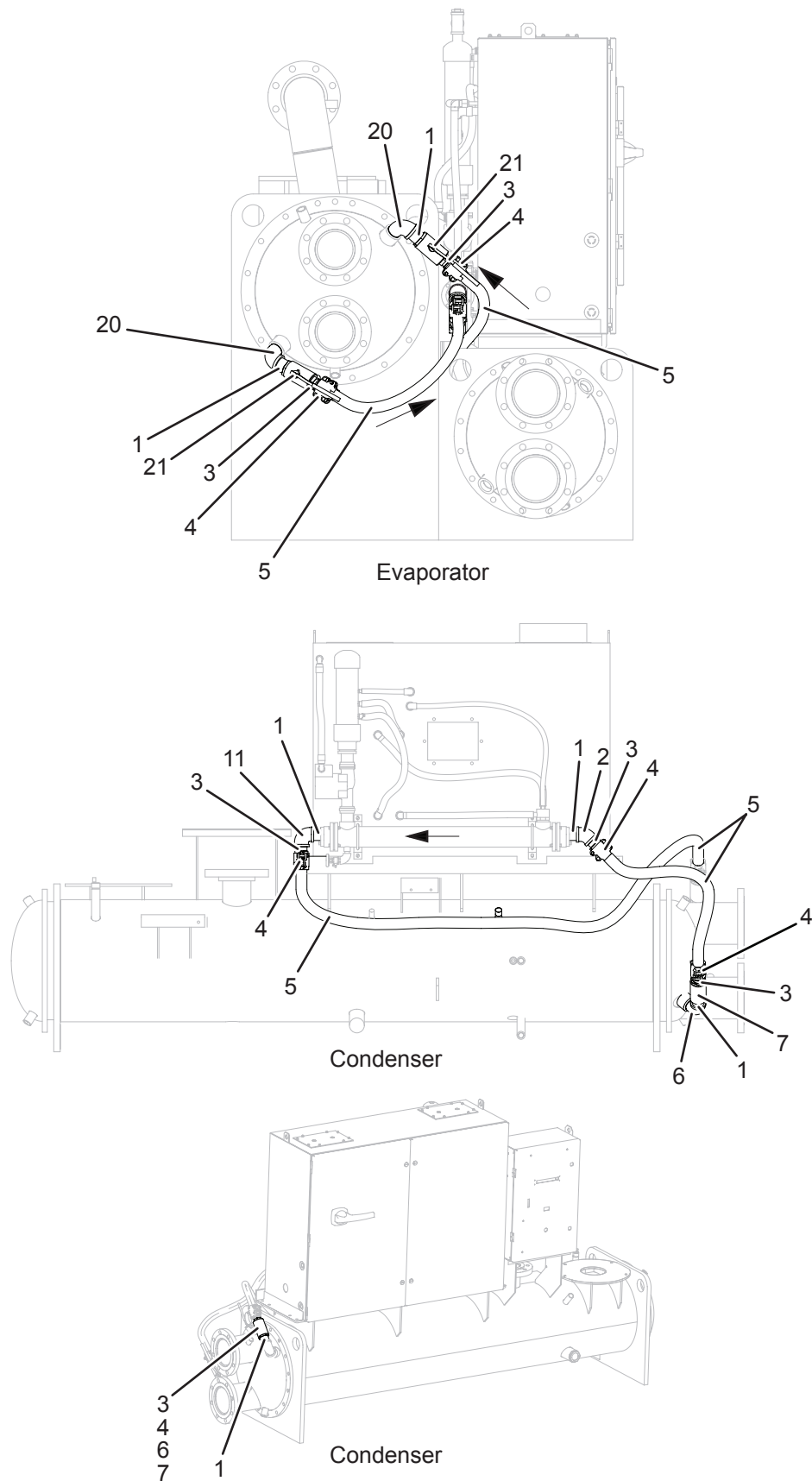
| ITEM | PIN 27= | DESCRIPTION                                 | YORK PART NUMBER | SAP PART NUMBER | QUANTITY | FIGURE |
|------|---------|---------------------------------------------|------------------|-----------------|----------|--------|
| 1    | H,S     | Nipple, Pipe 1-1/2" Sch 40                  | 023-18209-000    | 60695           | 6        | 43,44  |
| 2    | H,S     | Elbow, Scr 1-1/2" X 11-1/2" NPTI 45 Deg     | 023-11637-000    | 146762          | 1        | 44     |
| 3    | H,S     | Adapter, Combination 1-1/2" MPT (150 PSIG)  | 023-20295-000    | 60699           | 4        | 43,44  |
|      |         | Adapter, Stem Male 1-1/2" NPT (300 PSIG)    | 023-40047-000    | 573160          | 4        |        |
| 4    | H,S     | Clamp, Hose 1-25/32" Min Dia (150 PSIG)     | 021-30656-000    | 60683           | 8        | 43,44  |
|      |         | Clamp, Hose 1-1/2" 2 U Bolt (300 PSIG)      | 023-40048-000    | 116365          | 4        |        |
| 5    | H,S     | Hose, 1-1/2" ID X 2 To 2-1/32" (150 PISG)   | 028-15001-000    | 144455          | 4        | 43,44  |
|      |         | Hose, 1-1/2" ID X 2-3/64" (300 PSIG)        | 028-15028-000    | 144458          | 4        |        |
| 6    | H       | Union, Scr 1-1/2" NPTI Grd                  | 023-17625-000    | 146679          | 1        | 43,44  |
|      | S       | Elbow, Screw Street 1-1/2" NPTI             | 023-17785-000    | 617581          | 2        |        |
| 7    | H       | Valve, Ball 1-1/2" NPTI                     | 022-08873-000    | 336758          | 2        | 43,44  |
|      | S       | Coupling, NPTI MIG 150# 1-1/2" X 3/4"       | 023-17587-000    | 160697          | 2        |        |
| 8    | H       | Nipple, Pipe 3/4" Sch 40                    | 023-15860-000    | 116281          | 2        | 43     |
| 9    | H       | Valve, Reg Temperature                      | 022-08817-000    | 116003          | 1        | 43     |
| 10   | H       | Nipple, Pipe 1-1/2" Sch 40                  | 023-18204-000    | 97839           | 1        | 43     |
| 11   | H       | U-Bolt 1/4"Dia X 1-1/2"Bet Legs X 3-1/2"    | 021-15713-000    | 835388          | 1        | 43,44  |
|      | S       | Elbow, Screw 1-1/2" NPTI 90                 | 023-01648-000    | 617255          | 1        |        |
| 12   | H       | Support, 50" x 50" x 6" L=200 (Frame D)     | 092-06572-000    | 835389          | 1        | 43     |
|      | H       | Support, 186" x 190" x 6" Stl (Frame B)     | 092-10668-000    | 926908          | 1        |        |
| 13   | H       | Elbow, Screw 1-1/2" NPTI 90                 | 023-01648-000    | 617255          | 1        | 43     |
| 14   | H       | Screw, Hex Head Cap 1/4"-20 x 1-1/4" Gr5 Zn | 021-32004-010    | 730794          | 3        | 43     |
| 15   | H       | Nut, Hex 1/4"-20 Gr 5 Zn                    | 021-32004-501    | 616899          | 3        | 43     |
| 16   | H       | Washer, Plain 1/4" Zn, 0.625/0.065          | 021-32004-503    | 641533          | 3        | 43     |
| 17   | H       | Washer, Helical Spring-Lock 1/4" Reg, Zn    | 021-32004-504    | 705356          | 3        | 43     |
| 18   | H       | Fitting, Str 1-1/2" NPTI Conns              | 029-21798-000    | 742812          | 1        | 43     |
| 19   | H       | Plug, Pipe 1- 11 NPTE                       | 023-18084-000    | 732895          | 1        | 43     |
| 20   | H       | Elbow, Screw Street 1-1/2" NPTI             | 023-17785-000    | 617581          | 2        | 43,44  |
| 21   | H       | Valve, Ball 1-1/2" NPTI                     | 022-08873-000    | 336758          | 2        | 43,44  |
| 22   | H       | Screw, Hex Cap 3/8"-16 X 1-1/2" Gr 5 Zn     | 021-32006-012    | 730819          | 12       | 43     |
| 23   | H       | Lockwasher, Th Int Hvy 3/8"                 | 021-01158-000    | 729323          | 24       | 43     |
| 24   | H       | Nut, Hex 3/8"-16 Gr 5 Zn                    | 021-32006-501    | 616900          | 12       | 43     |
| 25   | H       | Bushing, Pipe 1 - 11-1/2 NPTE               | 023-09029-000    | 732054          | 1        | 43     |
| 26   | H       | Elbow, 90 Deg Screw 1" NPTI                 | 023-01643-000    | 731549          | 1        | 43     |
| 27   | H       | Nipple, Pipe 1 Sch 80 x 1-1/2" Lg           | 023-24421-000    | 733951          | 2        | 43     |
| 28   | H       | Tee, Screw 1" X 1" X 1" NPTI                | 023-01959-000    | 731552          | 1        | 43     |





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**FIGURE 43 - VSD INSTALLATION / COOLING SINGLE SYSTEM**

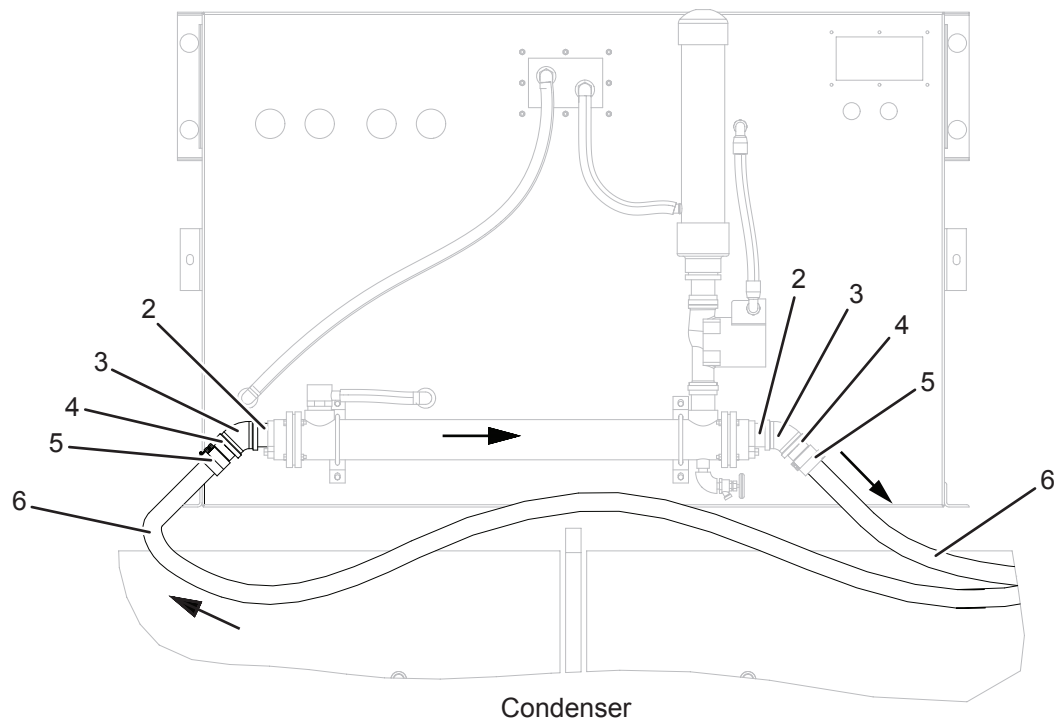
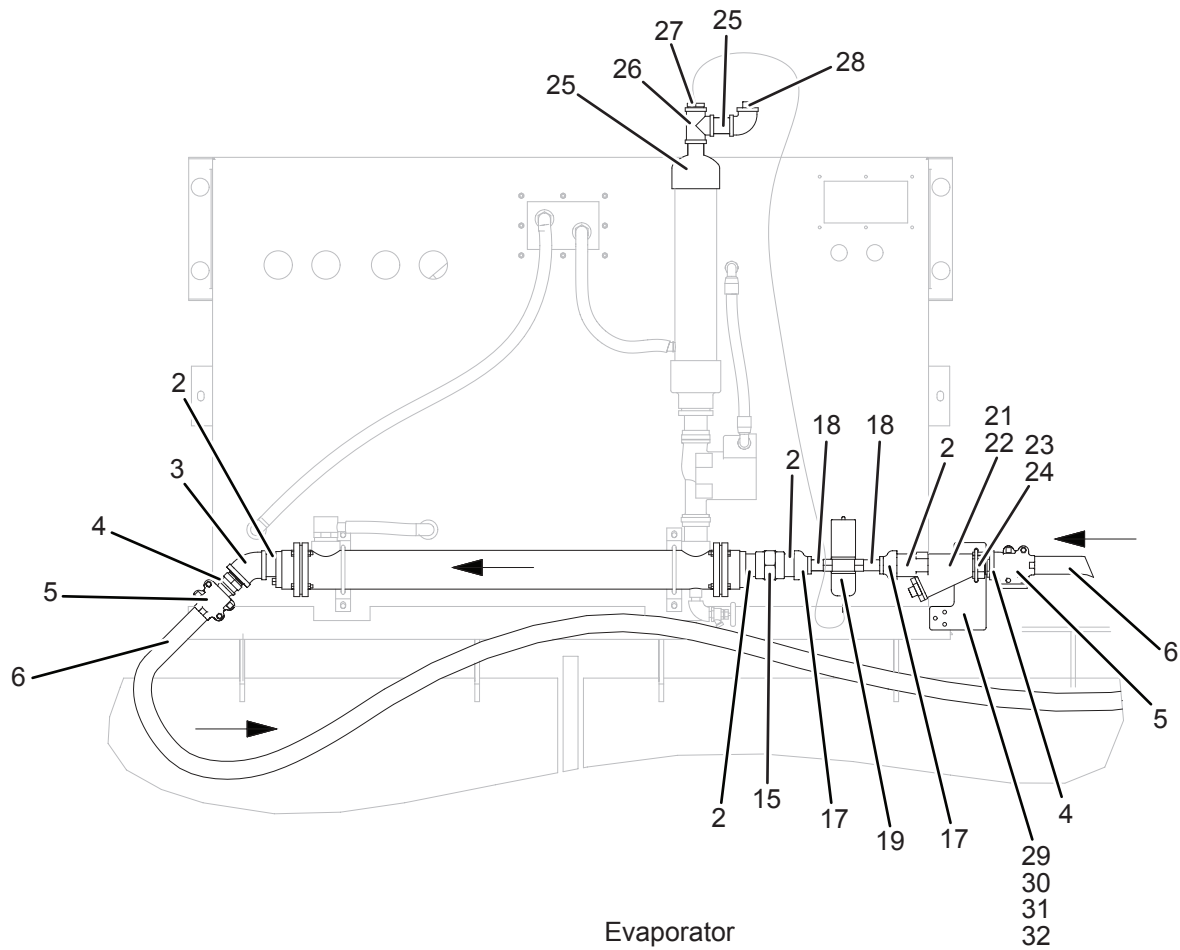


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**FIGURE 44 - VSD INSTALLATION / COOLING SINGLE SYSTEM**

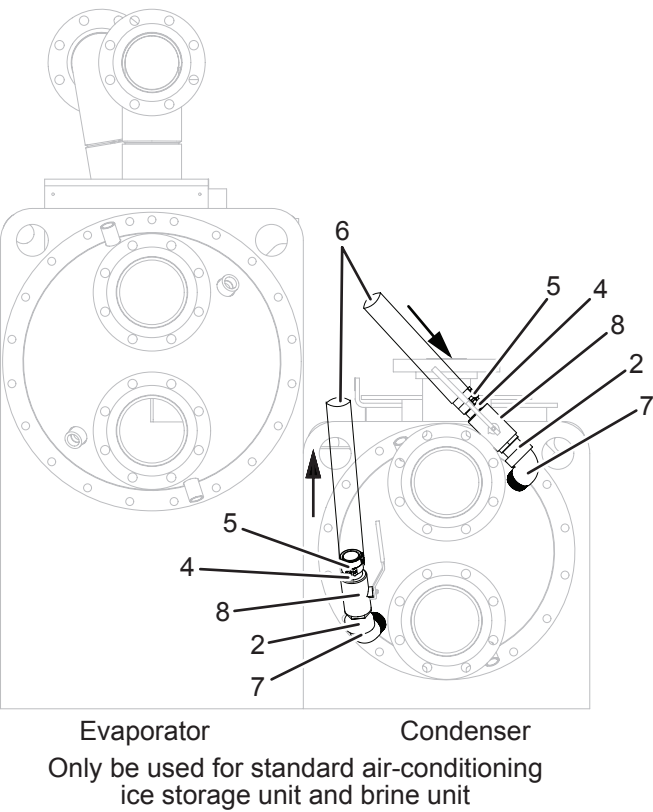
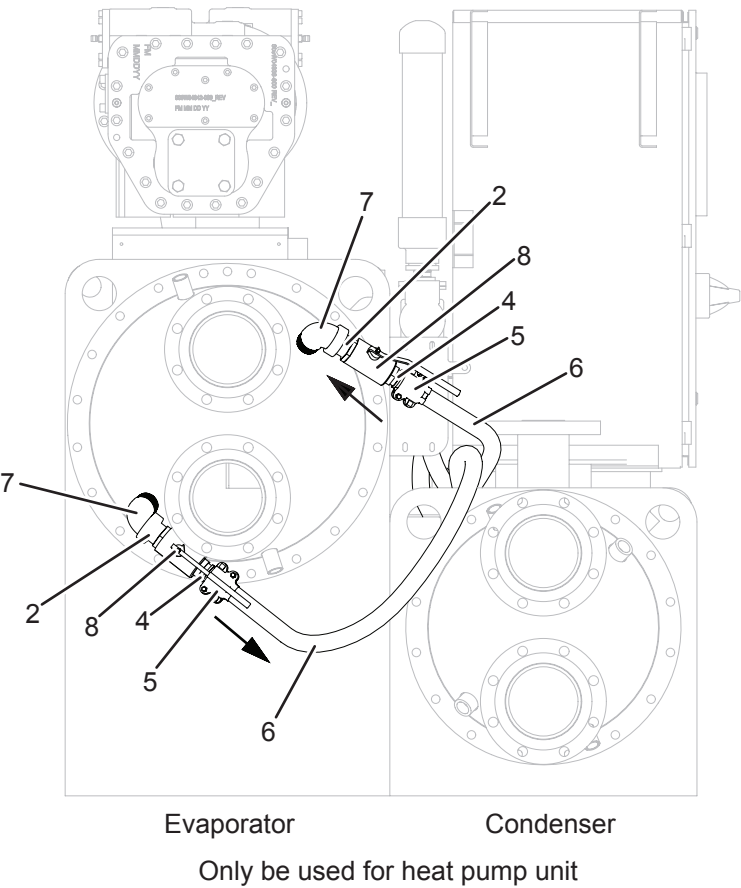
**TABLE 42 - VSD INSTALLATION / COOLING DUAL SYSTEM**

| ITEM | PIN 27= | WATERSIDE DWP  | DESCRIPTION                               | YORK PART NUMBER | SAP PART NUMBER | QUANTITY | FIGURE |
|------|---------|----------------|-------------------------------------------|------------------|-----------------|----------|--------|
| 2    | H,S     | 150 / 300 PSIG | Nipple, Pipe 1-1/2" Sch 40                | 023-18209-000    | 60695           | 6        | 45,46  |
| 3    | H,S     | 150 / 300 PSIG | Elbow, Screw 1-1/2" X 11-1/2" NPTI 45 Deg | 023-11637-000    | 146762          | 2        | 45     |
| 4    | H,S     | 150 PSIG       | Adapter, Combination 1-1/2" MPT           | 023-20295-000    | 60699           | 4        | 45,46  |
|      | S       | 300 PSIG       | Adapter, Stem Male 1-1/2" NPT             | 023-40047-000    | 573160          | 4        |        |
| 5    | H,S     | 150 PSIG       | Clamp, Hose 1-25/32" Min Dia              | 021-30656-000    | 60683           | 8        | 45,46  |
|      | S       | 300 PSIG       | Clamp, Hose 1-1/2" 2 U-Bolt               | 023-40048-000    | 116365          | 4        |        |
| 6    | H,S     | 150 PSIG       | Hose, 150 PSI, 1-1/2" ID X 2-1/32"        | 028-15001-000    | 144455          | 6        | 45,46  |
|      | S       | 300 PSIG       | Hose, 300 PSI, 1-1/2" ID X 2-3/64"        | 028-15028-000    | 144458          | 6        |        |
| 7    | H,S     | 150 / 300 PSIG | Elbow, Screw Street 1-1/2" NPTI           | 023-17785-000    | 617581          | 2        | 46     |
| 8    | H,S     | 150 / 300 PSIG | Valve, Ball 1-1/2" X 1-1/2" NPTI          | 022-08873-000    | 336758          | 2        | 46     |
| 15   | H       | 150 PSIG       | Union, Screw 1-1/2" NPTI Grd              | 023-17625-000    | 146679          | 1        | 45     |
| 17   | S       | 150 PSIG       | Coupling, NPTI Mig 150# 1-1/2" X 3/4"     | 023-17587-000    | 160697          | 2        | 45     |
| 18   | S       | 150 PSIG       | Nipple, Pipe 3/4" Sch 40                  | 023-15860-000    | 116281          | 2        | 45     |
| 19   | S       | 150 PSIG       | Valve, Reg Temperature                    | 022-08817-000    | 116003          | 1        | 45     |
| 21   | S       | 150 PSIG       | Str 1-1/2" NPTI                           | 029-21798-000    | 742812          | 1        | 45     |
| 22   | S       | 150 PSIG       | Plug, Pipe 1"-11 NPTE                     | 023-18084-000    | 732895          | 1        | 45     |
| 23   | S       | 150 PSIG       | Support 50 x 50 x 6 L=200                 | 092-06572-000    | 835389          | 1        | 45     |
| 24   | S       | 150 PSIG       | U-Bolt 1/4" Dia X 2-1/4"                  | 021-12985-000    | 1035928         | 1        | 45     |
| 25   | S       | 150 PSIG       | Nipple, Pipe 1" Sch 80 x 1-1/2" Lg        | 023-24421-000    | 733951          | 2        | 45     |
| 26   | S       | 150 PSIG       | Tee, Screw 1" X 1" X 1" NPTI              | 023-01959-000    | 731552          | 1        | 45     |
| 27   | S       | 150 PSIG       | Bushing, Pipe 1 - 11-1/2 NPTE             | 023-09029-000    | 732054          | 1        | 47     |
| 28   | S       | 150 PSIG       | Elbow, Screw 1" NPTI 90 Deg               | 023-01643-000    | 731549          | 1        | 47     |
| 29   | S       | 150 PSIG       | Screw, Hex Cap 1/4"-20 X 1-1/4" Gr 5 Zn   | 021-32004-010    | 730794          | 3        | 47     |
| 30   | S       | 150 PSIG       | Nut, Hex 1/4"-20 X Gr 5 Zn                | 021-32004-501    | 616899          | 3        | 47     |
| 31   | S       | 150 PSIG       | Washer, Plain 1/4" Zn, 0.625/0.065        | 021-32004-503    | 641533          | 3        | 47     |
| 32   | S       | 150 PSIG       | Washer, Helical Spring-Lock 1/4" Reg, Zn  | 021-32004-504    | 705356          | 3        | 47     |



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**FIGURE 45 - VSD INSTALLATION / COOLING DUAL SYSTEM**



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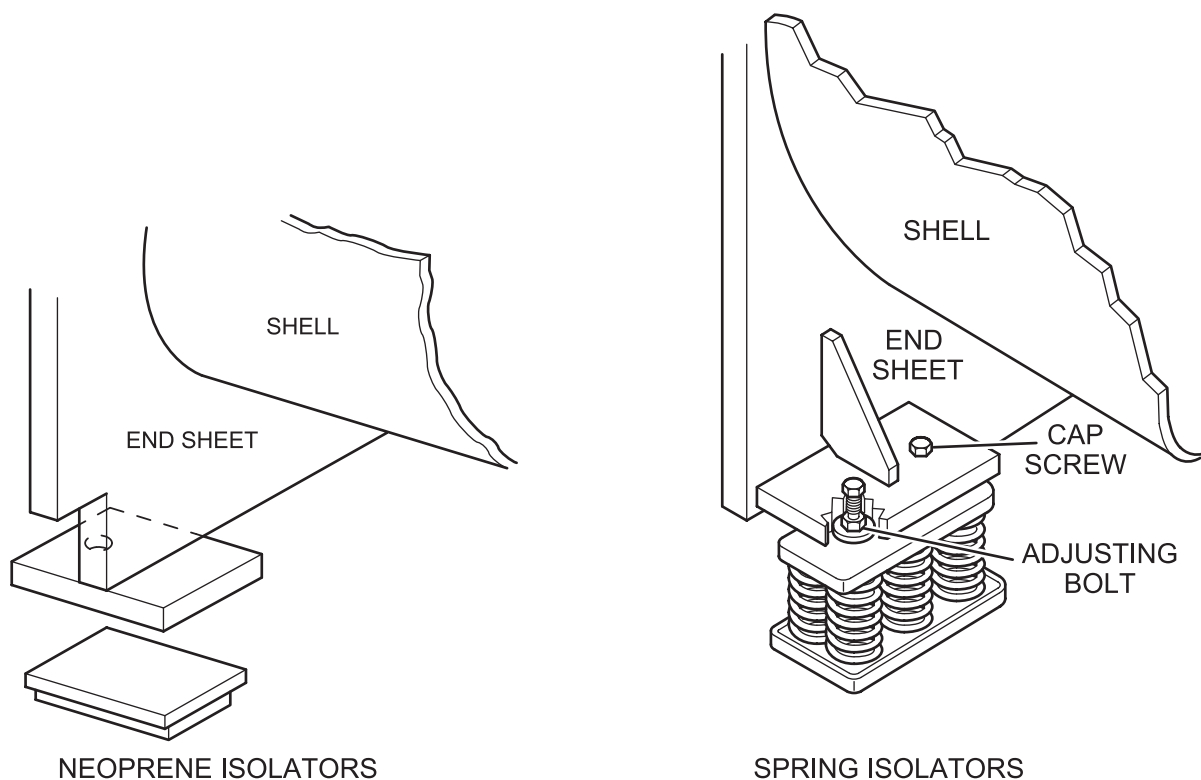
**FIGURE 46 - VSD INSTALLATION / COOLING DUAL SYSTEM**

**TABLE 43 - NEOPRENE PAD ISOLATORS**

| OPERATING WEIGHT |                   | DESCRIPTION            | YORK PART NUMBER | SAP PART NUMBER | PAD SIZE                |
|------------------|-------------------|------------------------|------------------|-----------------|-------------------------|
| KILOGRAMS        | POUNDS            |                        |                  |                 |                         |
| Up to 7,423      | Up to 16,365      | Isolator, Neoprene Pad | 028-14462-000    | 741884          | 5.5" x 5.5" (14 x 14cm) |
| 7,424 to 13,107  | 16,366 to 28,835  | Isolator, Neoprene Pad | 028-14459-000    | 741881          | 7" x 5.5" (23 x 14cm)   |
| 13,108 to 24,332 | 28,836 to 53,530  | Isolator, Neoprene Pad | 028-14460-000    | 741882          | 9" x 7" (23 x 18cm)     |
| 24,333 to 45,666 | 53,531 to 100,464 | Isolator, Neoprene Pad | 028-14461-000    | 741883          | 10" x 11" (25 x 28cm)   |

**TABLE 44 - SPRING ISOLATORS**

| OPERATING WEIGHT |                  | DESCRIPTION      | YORK PART NUMBER | SAP PART NUMBER | QUANTITY (PER PKG) |
|------------------|------------------|------------------|------------------|-----------------|--------------------|
| KILOGRAMS        | POUNDS           |                  |                  |                 |                    |
| 3,187 to 4,535   | 7,020 to 9,999   | Isolator, Spring | 029-26589-000    | 1060553         | 4                  |
|                  |                  |                  |                  |                 | 1                  |
| 4,536 to 8,873   | 10,000 to 19,563 | Isolator, Spring | 029-23716-000    | 743152          | 4                  |
|                  |                  |                  |                  |                 | 1                  |
| 8,874 to 11,093  | 19,564 to 24,457 | Isolator, Spring | 029-21793-000    | 742810          | 4                  |
|                  |                  |                  |                  |                 | 1                  |
| 11,094 to 13,982 | 24,458 to 30,826 | Isolator, Spring | 029-21376-000    | 742777          | 4                  |
|                  |                  |                  |                  |                 | 1                  |
| 13,983 to 15,880 | 30,827 to 35,009 | Isolator, Spring | 029-20933-000    | 742757          | 4                  |
|                  |                  |                  |                  |                 | 1                  |



**FIGURE 47 - NEOPRENE PAD ISOLATORS / SPRING ISOLATORS**

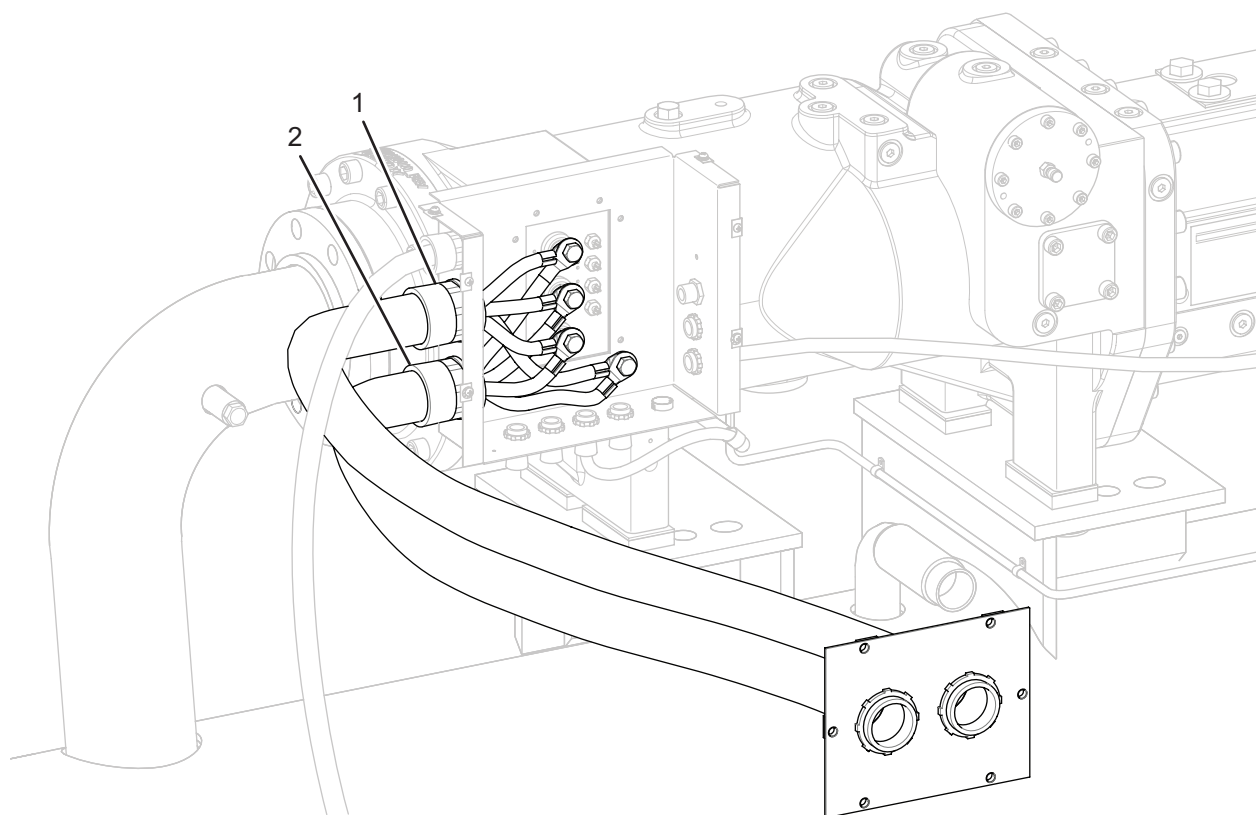
**TABLE 45 - POWER WIRING SINGLE SYSTEM**

| ITEM                                      | DESCRIPTION                                      | YORK PART NUMBER | SAP PART NUMBER | QUANTITY | FIGURE |
|-------------------------------------------|--------------------------------------------------|------------------|-----------------|----------|--------|
| 0 - 235 RATED LOAD AMPS (392-07173-000)   |                                                  |                  |                 |          |        |
| 1                                         | Harness Compr PW A 35                            | 592-07172-101    | 1061145         | 1        | 48     |
|                                           | Conduit, 2"                                      | 025-30474-000    | 738506          | 3.47 ft. |        |
|                                           | Connector, 2" Straight Connector (Comp. JB End)  | 025-30475-000    | 919858          | 1        |        |
|                                           | Connector, 2" Straight Connector (VSD Panel End) | 025-30475-000    | 919858          | 1        |        |
|                                           | Ring Tongue, 7/16" (Comp End)                    | 025-34041-000    | 1115125         | 3        |        |
|                                           | Ring Tongue, 1/2" (Comp End)                     | 025-34049-000    | 1115130         | 1        |        |
|                                           | Ring Tongue, 3/8" (VSD End)                      | 025-34401-000    | 117661          | 3        |        |
|                                           | Ring Tongue, 7/16" (VSD End)                     | 025-34039-000    | 1115124         | 1        |        |
| 2                                         | Harness Compr PW B 35                            | 592-07172-102    | 1061146         | 1        | 48     |
|                                           | Conduit, 2"                                      | 025-30474-000    | 738506          | 4.38 ft. |        |
|                                           | Connector, 2" Straight Connector (Comp. JB End)  | 025-30475-000    | 919858          | 1        |        |
|                                           | Connector, 2" Straight Connector (VSD Panel End) | 025-30475-000    | 919858          | 1        |        |
|                                           | Ring Tongue, 7/16" (Comp End)                    | 025-34041-000    | 1115125         | 3        |        |
|                                           | Ring Tongue, 1/2" (Comp End)                     | 025-34049-000    | 1115130         | 1        |        |
|                                           | Ring Tongue, 3/8" (VSD End)                      | 025-34401-000    | 117661          | 3        |        |
|                                           | Ring Tongue, 7/16" (VSD End)                     | 025-34039-000    | 1115124         | 1        |        |
| 236 - 286 RATED LOAD AMPS (392-07173-001) |                                                  |                  |                 |          |        |
| 1                                         | Harness Compr Power A                            | 592-07172-103    | 841629          | 1        | 48     |
|                                           | Conduit, 2"                                      | 025-30474-000    | 738506          | 3.47 ft. |        |
|                                           | Connector, 2" Straight Connector (Comp. JB End)  | 025-30475-000    | 919858          | 1        |        |
|                                           | Connector, 2" Straight Connector (VSD Panel End) | 025-30475-000    | 919858          | 1        |        |
|                                           | Ring Tongue, 7/16" (Comp End)                    | 025-25150-000    | 1115095         | 3        |        |
|                                           | Ring Tongue, 1/2" (Comp End)                     | 025-34051-000    | 1115131         | 1        |        |
|                                           | Ring Tongue, 3/8" (VSD End)                      | 025-37802-000    | 1115492         | 3        |        |
|                                           | Ring Tongue, 7/16" (VSD End)                     | 025-34041-000    | 1115125         | 1        |        |
| 2                                         | Harness Compr Power B                            | 592-07172-104    | 841630          | 1        | 48     |
|                                           | Conduit, 2"                                      | 025-30474-000    | 738506          | 4.38 ft. |        |
|                                           | Connector, 2" Straight Connector (Comp. JB End)  | 025-30475-000    | 919858          | 1        |        |
|                                           | Connector, 2" Straight Connector (VSD Panel End) | 025-30475-000    | 919858          | 1        |        |
|                                           | Ring Tongue, 7/16" (Comp End)                    | 025-25150-000    | 1115095         | 3        |        |
|                                           | Ring Tongue, 1/2" (Comp End)                     | 025-34051-000    | 1115131         | 1        |        |
|                                           | Ring Tongue, 3/8" (VSD End)                      | 025-37802-000    | 1115492         | 3        |        |
|                                           | Ring Tongue, 7/16" (VSD End)                     | 025-34041-000    | 1115125         | 1        |        |

**TABLE 45 (CONT'D) - POWER WIRING SINGLE SYSTEM**

| ITEM                                      | DESCRIPTION                                      | YORK PART NUMBER | SAP PART NUMBER | QUANTITY | FIGURE |
|-------------------------------------------|--------------------------------------------------|------------------|-----------------|----------|--------|
| 287 - 366 RATED LOAD AMPS (392-07173-002) |                                                  |                  |                 |          |        |
| 1                                         | Harness Compr PW A 35                            | 592-07172-105    | 1061145         | 1        | 48     |
|                                           | Conduit, 2"                                      | 025-30474-000    | 738506          | 3.47 ft. |        |
|                                           | Connector, 2" Straight Connector (Comp. JB End)  | 025-30475-000    | 919858          | 1        |        |
|                                           | Connector, 2" Straight Connector (VSD Panel End) | 025-30475-000    | 919858          | 1        |        |
|                                           | Ring Tongue, 7/16" (Comp End)                    | 025-34044-000    | 1115128         | 3        |        |
|                                           | Ring Tongue, 1/2" (Comp End)                     | 025-34052-000    | 1115132         | 1        |        |
|                                           | Ring Tongue, 3/8" (VSD End)                      | 025-37803-000    | 1115493         | 3        |        |
|                                           | Ring Tongue, 7/16" (VSD End)                     | 025-34042-000    | 1115126         | 1        |        |
| 2                                         | Harness Compr PW B 35                            | 592-07172-106    | 1061146         | 1        | 48     |
|                                           | Conduit, 2"                                      | 025-30474-000    | 738506          | 4.38 ft. |        |
|                                           | Connector, 2" Straight Connector (Comp. JB End)  | 025-30475-000    | 919858          | 1        |        |
|                                           | Connector, 2" Straight Connector (VSD Panel End) | 025-30475-000    | 919858          | 1        |        |
|                                           | Ring Tongue, 7/16" (Comp End)                    | 025-34044-000    | 1115128         | 3        |        |
|                                           | Ring Tongue, 1/2" (Comp End)                     | 025-34052-000    | 1115132         | 1        |        |
|                                           | Ring Tongue, 3/8" (VSD End)                      | 025-37803-000    | 1115493         | 3        |        |
|                                           | Ring Tongue, 7/16" (VSD End)                     | 025-34042-000    | 1115126         | 1        |        |
| 367 - 443 RATED LOAD AMPS (392-07173-003) |                                                  |                  |                 |          |        |
| 1                                         | Harness Compr Power A                            | 592-07172-107    | 841629          | 1        | 48     |
|                                           | Conduit, 2"                                      | 025-30474-000    | 738506          | 3.47 ft. |        |
|                                           | Connector, 2" Straight Connector (Comp. JB End)  | 025-30475-000    | 919858          | 1        |        |
|                                           | Connector, 2" Straight Connector (VSD Panel End) | 025-30475-000    | 919858          | 1        |        |
|                                           | Ring Tongue, 7/16" (Comp End)                    | 025-34045-000    | 1115129         | 3        |        |
|                                           | Ring Tongue, 1/2" (Comp End)                     | 025-34052-000    | 1115132         | 1        |        |
|                                           | Ring Tongue, 3/8" (VSD End)                      | 025-34459-000    | 1115139         | 3        |        |
|                                           | Ring Tongue, 7/16" (VSD End)                     | 025-34042-000    | 1115126         | 1        |        |
| 2                                         | Harness Compr Power B                            | 592-07172-108    | 841630          | 1        | 48     |
|                                           | Conduit, 2"                                      | 025-30474-000    | 738506          | 4.38 ft. |        |
|                                           | Connector, 2" Straight Connector (Comp. JB End)  | 025-30475-000    | 919858          | 1        |        |
|                                           | Connector, 2" Straight Connector (VSD Panel End) | 025-30475-000    | 919858          | 1        |        |
|                                           | Ring Tongue, 7/16" (Comp End)                    | 025-34045-000    | 1115129         | 3        |        |
|                                           | Ring Tongue, 1/2" (Comp End)                     | 025-34052-000    | 1115132         | 1        |        |
|                                           | Ring Tongue, 3/8" (VSD End)                      | 025-34459-000    | 1115139         | 3        |        |
|                                           | Ring Tongue, 7/16" (VSD End)                     | 025-34042-000    | 1115126         | 1        |        |





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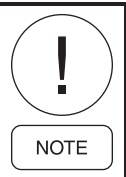
**FIGURE 48 - POWER WIRING SINGLE SYSTEMS**

**TABLE 46 - POWER WIRING DUAL SYSTEMS**

| ITEM                                      | DESCRIPTION                      | YORK PART NUMBER | SAP PART NUMBER | QUANTITY | FIGURE |
|-------------------------------------------|----------------------------------|------------------|-----------------|----------|--------|
| 0 - 235 RATED LOAD AMPS (392-00681-000)   |                                  |                  |                 |          |        |
| 1                                         | HARNESS COMPRESSOR 1A            | 592-00580-401    | 716626          | 1        | 49     |
|                                           | Conduit, 2"                      | 025-30474-000    | 738506          | 2.75 ft. |        |
|                                           | Connector, 2" Straight Connector | 025-30475-000    | 919858          | 1        |        |
|                                           | Connector, 2" Straight Connector | 025-30475-000    | 919858          | 1        |        |
|                                           | Ring Tongue, 7/16" (Comp End)    | 025-34041-000    | 1115125         | 3        |        |
|                                           | Ring Tongue, 1/2" (Comp End)     | 025-34049-000    | 1115130         | 1        |        |
|                                           | Ring Tongue, 3/8" (VSD End)      | 025-34401-000    | 117661          | 3        |        |
|                                           | Ring Tongue, 7/16" (VSD End)     | 025-34039-000    | 1115124         | 1        |        |
| 2                                         | HARNESS COMPRESSOR 1B            | 592-00580-402    | 716627          | 1        | 49     |
|                                           | Conduit, 2"                      | 025-30474-000    | 738506          | 2.75 ft. |        |
|                                           | Connector, 2" Straight Connector | 025-30475-000    | 919858          | 1        |        |
|                                           | Connector, 2" Straight Connector | 025-30475-000    | 919858          | 1        |        |
|                                           | Ring Tongue, 7/16" (Comp End)    | 025-34041-000    | 1115125         | 3        |        |
|                                           | Ring Tongue, 1/2" (Comp End)     | 025-34049-000    | 1115130         | 1        |        |
|                                           | Ring Tongue, 3/8" (VSD End)      | 025-34401-000    | 117661          | 3        |        |
|                                           | Ring Tongue, 7/16" (VSD End)     | 025-34039-000    | 1115124         | 1        |        |
| 3                                         | HARNESS COMPRESSOR 2A            | 592-00580-403    | 716628          | 1        | 49     |
|                                           | Conduit, 2"                      | 025-30474-000    | 738506          | 6.67 ft. |        |
|                                           | Connector, 2" Straight Connector | 025-30475-000    | 919858          | 1        |        |
|                                           | Connector, 2" Straight Connector | 025-30475-000    | 919858          | 1        |        |
|                                           | Ring Tongue, 7/16" (Comp End)    | 025-34041-000    | 1115125         | 3        |        |
|                                           | Ring Tongue, 1/2" (Comp End)     | 025-34049-000    | 1115130         | 1        |        |
|                                           | Ring Tongue, 3/8" (VSD End)      | 025-34401-000    | 117661          | 3        |        |
|                                           | Ring Tongue, 7/16" (VSD End)     | 025-34039-000    | 1115124         | 1        |        |
| 4                                         | HARNESS COMPRESSOR 2B            | 592-00580-404    | 716629          | 1        | 49     |
|                                           | Conduit, 2"                      | 025-30474-000    | 738506          | 6.67 ft. |        |
|                                           | Connector, 2" Straight Connector | 025-30475-000    | 919858          | 1        |        |
|                                           | Connector, 2" Straight Connector | 025-30475-000    | 919858          | 1        |        |
|                                           | Ring Tongue, 7/16" (Comp End)    | 025-34041-000    | 1115125         | 3        |        |
|                                           | Ring Tongue, 1/2" (Comp End)     | 025-34049-000    | 1115130         | 1        |        |
|                                           | Ring Tongue, 3/8" (VSD End)      | 025-34401-000    | 117661          | 3        |        |
|                                           | Ring Tongue, 7/16" (VSD End)     | 025-34039-000    | 1115124         | 1        |        |
| 235 - 286 RATED LOAD AMPS (392-00681-001) |                                  |                  |                 |          |        |
| 1                                         | HARNESS COMPRESSOR 1A            | 592-00580-201    | 683093          | 1        | 49     |
|                                           | Conduit, 2"                      | 025-30474-000    | 738506          | 2.75 ft. |        |
|                                           | Connector, 2" Straight Connector | 025-30475-000    | 919858          | 1        |        |
|                                           | Connector, 2" Straight Connector | 025-30475-000    | 919858          | 1        |        |
|                                           | Ring Tongue, 7/16" (Comp End)    | 025-25150-000    | 1115095         | 3        |        |
|                                           | Ring Tongue, 1/2" (Comp End)     | 025-34051-000    | 1115131         | 1        |        |
|                                           | Ring Tongue, 3/8" (VSD End)      | 025-37802-000    | 1115492         | 3        |        |
|                                           | Ring Tongue, 7/16" (VSD End)     | 025-34041-000    | 1115125         | 1        |        |

**TABLE 46 (CONT'D) - POWER WIRING DUAL SYSTEMS**

| ITEM                                      | DESCRIPTION                      | YORK PART NUMBER | SAP PART NUMBER | QUANTITY | FIGURE |
|-------------------------------------------|----------------------------------|------------------|-----------------|----------|--------|
| 2                                         | HARNESS COMPRESSOR 1B            | 592-00580-202    | 683094          | 1        | 49     |
|                                           | Conduit, 2"                      | 025-30474-000    | 738506          | 2.75 ft. |        |
|                                           | Connector, 2" Straight Connector | 025-30475-000    | 919858          | 1        |        |
|                                           | Connector, 2" Straight Connector | 025-30475-000    | 919858          | 1        |        |
|                                           | Ring Tongue, 7/16" (Comp End)    | 025-25150-000    | 1115095         | 3        |        |
|                                           | Ring Tongue, 1/2" (Comp End)     | 025-34051-000    | 1115131         | 1        |        |
|                                           | Ring Tongue, 3/8" (VSD End)      | 025-37802-000    | 1115492         | 3        |        |
|                                           | Ring Tongue, 7/16" (VSD End)     | 025-34041-000    | 1115125         | 1        |        |
| 3                                         | HARNESS COMPRESSOR 2A            | 592-00580-203    | 683095          | 1        | 49     |
|                                           | Conduit, 2"                      | 025-30474-000    | 738506          | 6.67 ft. |        |
|                                           | Connector, 2" Straight Connector | 025-30475-000    | 919858          | 1        |        |
|                                           | Connector, 2" Straight Connector | 025-30475-000    | 919858          | 1        |        |
|                                           | Ring Tongue, 7/16" (Comp End)    | 025-25150-000    | 1115095         | 3        |        |
|                                           | Ring Tongue, 1/2" (Comp End)     | 025-34051-000    | 1115131         | 1        |        |
|                                           | Ring Tongue, 3/8" (VSD End)      | 025-37802-000    | 1115492         | 3        |        |
|                                           | Ring Tongue, 7/16" (VSD End)     | 025-34041-000    | 1115125         | 1        |        |
| 4                                         | HARNESS COMPRESSOR 2B            | 592-00580-204    | 683096          | 1        | 49     |
|                                           | Conduit, 2"                      | 025-30474-000    | 738506          | 6.67 ft. |        |
|                                           | Connector, 2" Straight Connector | 025-30475-000    | 919858          | 1        |        |
|                                           | Connector, 2" Straight Connector | 025-30475-000    | 919858          | 1        |        |
|                                           | Ring Tongue, 7/16" (Comp End)    | 025-25150-000    | 1115095         | 3        |        |
|                                           | Ring Tongue, 1/2" (Comp End)     | 025-34051-000    | 1115131         | 1        |        |
|                                           | Ring Tongue, 3/8" (VSD End)      | 025-37802-000    | 1115492         | 3        |        |
|                                           | Ring Tongue, 7/16" (VSD End)     | 025-34041-000    | 1115125         | 1        |        |
| 286 - 366 RATED LOAD AMPS (392-00681-002) |                                  |                  |                 |          |        |
| 1                                         | HARNESS COMPRESSOR 1A            | 592-00580-411    | 716618          | 1        | 49     |
|                                           | Conduit, 2"                      | 025-30474-000    | 738506          | 3 ft.    |        |
|                                           | Connector, 2" Straight Connector | 025-30475-000    | 919858          | 1        |        |
|                                           | Connector, 2" Straight Connector | 025-30475-000    | 919858          | 1        |        |
|                                           | Ring Tongue, 7/16" (Comp End)    | 025-34044-000    | 1115128         | 3        |        |
|                                           | Ring Tongue, 1/2" (Comp End)     | 025-34052-000    | 1115132         | 1        |        |
|                                           | Ring Tongue, 3/8" (VSD End)      | 025-37803-000    | 1115493         | 3        |        |
|                                           | Ring Tongue, 7/16" (VSD End)     | 025-34042-000    | 1115126         | 1        |        |
| 2                                         | HARNESS COMPRESSOR 1B            | 592-00580-412    | 716620          | 1        | 49     |
|                                           | Conduit, 2"                      | 025-30474-000    | 738506          | 2.75 ft. |        |
|                                           | Connector, 2" Straight Connector | 025-30475-000    | 919858          | 1        |        |
|                                           | Connector, 2" Straight Connector | 025-30475-000    | 919858          | 1        |        |
|                                           | Ring Tongue, 7/16" (Comp End)    | 025-34044-000    | 1115128         | 3        |        |
|                                           | Ring Tongue, 1/2" (Comp End)     | 025-34052-000    | 1115132         | 1        |        |
|                                           | Ring Tongue, 3/8" (VSD End)      | 025-37803-000    | 1115493         | 3        |        |
|                                           | Ring Tongue, 7/16" (VSD End)     | 025-34042-000    | 1115126         | 1        |        |



***When replacing any Power Wiring, refer to the Compressor Data Plate to identify the Rated Load Amps (LRA).***

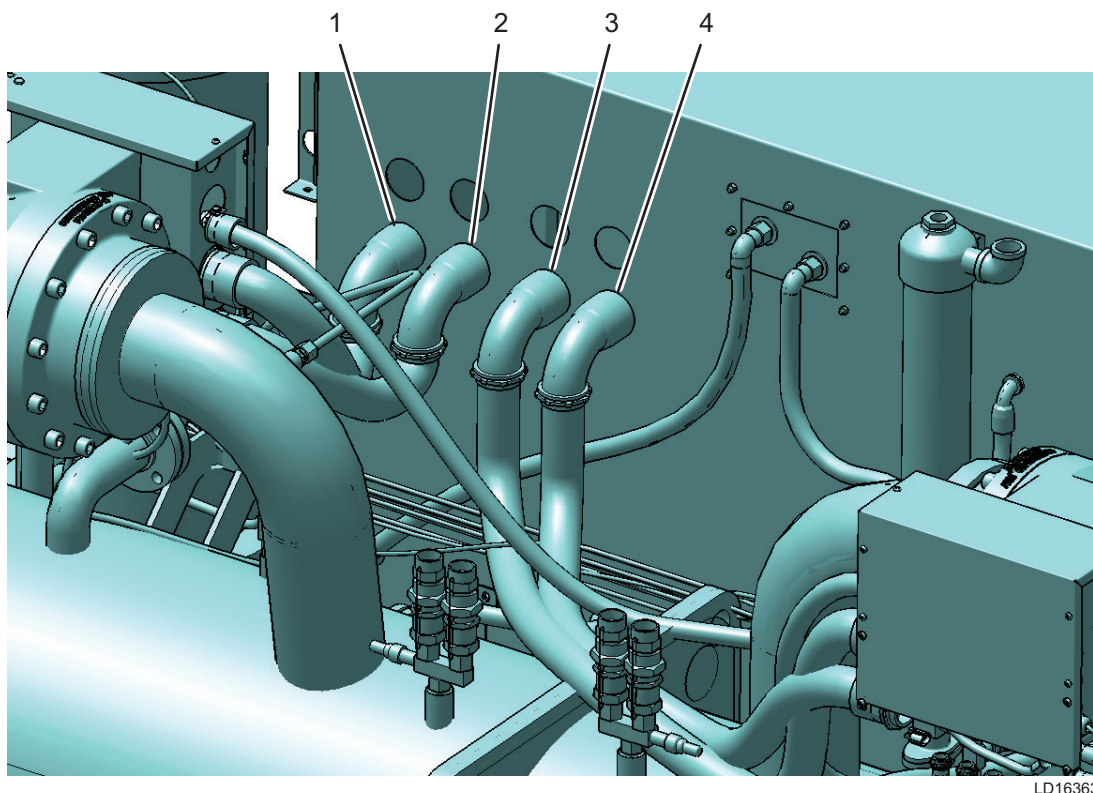
**TABLE 46 (CONT'D) - POWER WIRING DUAL SYSTEMS**

| ITEM                                      | DESCRIPTION                      | YORK PART NUMBER | SAP PART NUMBER | QUANTITY | FIGURE |
|-------------------------------------------|----------------------------------|------------------|-----------------|----------|--------|
| 3                                         | HARNESS COMPRESSOR 2A            | 592-00580-413    | 716621          | 1        | 49     |
|                                           | Conduit, 2"                      | 025-30474-000    | 738506          | 6.67 ft. |        |
|                                           | Connector, 2" Straight Connector | 025-30475-000    | 919858          | 1        |        |
|                                           | Connector, 2" Straight Connector | 025-30475-000    | 919858          | 1        |        |
|                                           | Ring Tongue, 7/16" (Comp End)    | 025-34044-000    | 1115128         | 3        |        |
|                                           | Ring Tongue, 1/2" (Comp End)     | 025-34052-000    | 1115132         | 1        |        |
|                                           | Ring Tongue, 3/8" (VSD End)      | 025-37803-000    | 1115493         | 3        |        |
|                                           | Ring Tongue, 7/16" (VSD End)     | 025-34042-000    | 1115126         | 1        |        |
| 4                                         | HARNESS COMPRESSOR 2B            | 592-00580-414    | 716622          | 1        | 49     |
|                                           | Conduit, 2"                      | 025-30474-000    | 738506          | 6.67 ft. |        |
|                                           | Connector, 2" Straight Connector | 025-30475-000    | 919858          | 1        |        |
|                                           | Connector, 2" Straight Connector | 025-30475-000    | 919858          | 1        |        |
|                                           | Ring Tongue, 7/16" (Comp End)    | 025-34044-000    | 1115128         | 3        |        |
|                                           | Ring Tongue, 1/2" (Comp End)     | 025-34052-000    | 1115132         | 1        |        |
|                                           | Ring Tongue, 3/8" (VSD End)      | 025-37803-000    | 1115493         | 3        |        |
|                                           | Ring Tongue, 7/16" (VSD End)     | 025-34042-000    | 1115126         | 1        |        |
| 367 - 443 RATED LOAD AMPS (392-00681-003) |                                  |                  |                 |          |        |
| 1                                         | HARNESS COMPR PW 1A 95           | 592-00580-405    | 886335          | 1        | 49     |
|                                           | Conduit, 2"                      | 025-30474-000    | 738506          | 2.75 ft. |        |
|                                           | Connector, 2" Straight Connector | 025-30475-000    | 919858          | 1        |        |
|                                           | Connector, 2" Straight Connector | 025-30475-000    | 919858          | 1        |        |
|                                           | Ring Tongue, 7/16" (Comp End)    | 025-34045-000    | 1115129         | 3        |        |
|                                           | Ring Tongue, 1/2" (Comp End)     | 025-34052-000    | 1115132         | 1        |        |
|                                           | Ring Tongue, 3/8" (VSD End)      | 025-34459-000    | 1115139         | 3        |        |
|                                           | Ring Tongue, 7/16" (VSD End)     | 025-34042-000    | 1115126         | 1        |        |
| 2                                         | HARNESS COMPR PW 1B 95           | 592-00580-406    | 886336          | 1        | 49     |
|                                           | Conduit, 2"                      | 025-30474-000    | 738506          | 2.75 ft. |        |
|                                           | Connector, 2" Straight Connector | 025-30475-000    | 919858          | 1        |        |
|                                           | Connector, 2" Straight Connector | 025-30475-000    | 919858          | 1        |        |
|                                           | Ring Tongue, 7/16" (Comp End)    | 025-34045-000    | 1115129         | 3        |        |
|                                           | Ring Tongue, 1/2" (Comp End)     | 025-34052-000    | 1115132         | 1        |        |
|                                           | Ring Tongue, 3/8" (VSD End)      | 025-34459-000    | 1115139         | 3        |        |
|                                           | Ring Tongue, 7/16" (VSD End)     | 025-34042-000    | 1115126         | 1        |        |
| 3                                         | HARNESS COMPR PW 2A 95           | 592-00580-409    | 1061143         | 1        | 49     |
|                                           | Conduit, 2"                      | 025-30474-000    | 738506          | 6.67 ft. |        |
|                                           | Connector, 2" Straight Connector | 025-30475-000    | 919858          | 1        |        |
|                                           | Connector, 2" Straight Connector | 025-30475-000    | 919858          | 1        |        |
|                                           | Ring Tongue, 7/16" (Comp End)    | 025-34045-000    | 1115129         | 3        |        |
|                                           | Ring Tongue, 1/2" (Comp End)     | 025-34052-000    | 1115132         | 1        |        |
|                                           | Ring Tongue, 3/8" (VSD End)      | 025-34459-000    | 1115139         | 3        |        |
|                                           | Ring Tongue, 7/16" (VSD End)     | 025-34042-000    | 1115126         | 1        |        |

**TABLE 46 (CONT'D) - POWER WIRING DUAL SYSTEMS**

| ITEM | DESCRIPTION                      | YORK PART NUMBER | SAP PART NUMBER | QUANTITY | FIGURE |
|------|----------------------------------|------------------|-----------------|----------|--------|
| 4    | HARNESS COMPR PW 2B 95           | 592-00580-410    | 1061144         | 1        | 49     |
|      | Conduit, 2"                      | 025-30474-000    | 738506          | 6.67 ft. |        |
|      | Connector, 2" Straight Connector | 025-30475-000    | 919858          | 1        |        |
|      | Connector, 2" Straight Connector | 025-30475-000    | 919858          | 1        |        |
|      | Ring Tongue, 7/16" (Comp End)    | 025-34045-000    | 1115129         | 3        |        |
|      | Ring Tongue, 1/2" (Comp End)     | 025-34052-000    | 1115132         | 1        |        |
|      | Ring Tongue, 3/8" (VSD End)      | 025-34459-000    | 1115139         | 3        |        |
|      | Ring Tongue, 7/16" (VSD End)     | 025-34042-000    | 1115126         | 1        |        |

**NOTE:** Items with an \* are NOT represented.

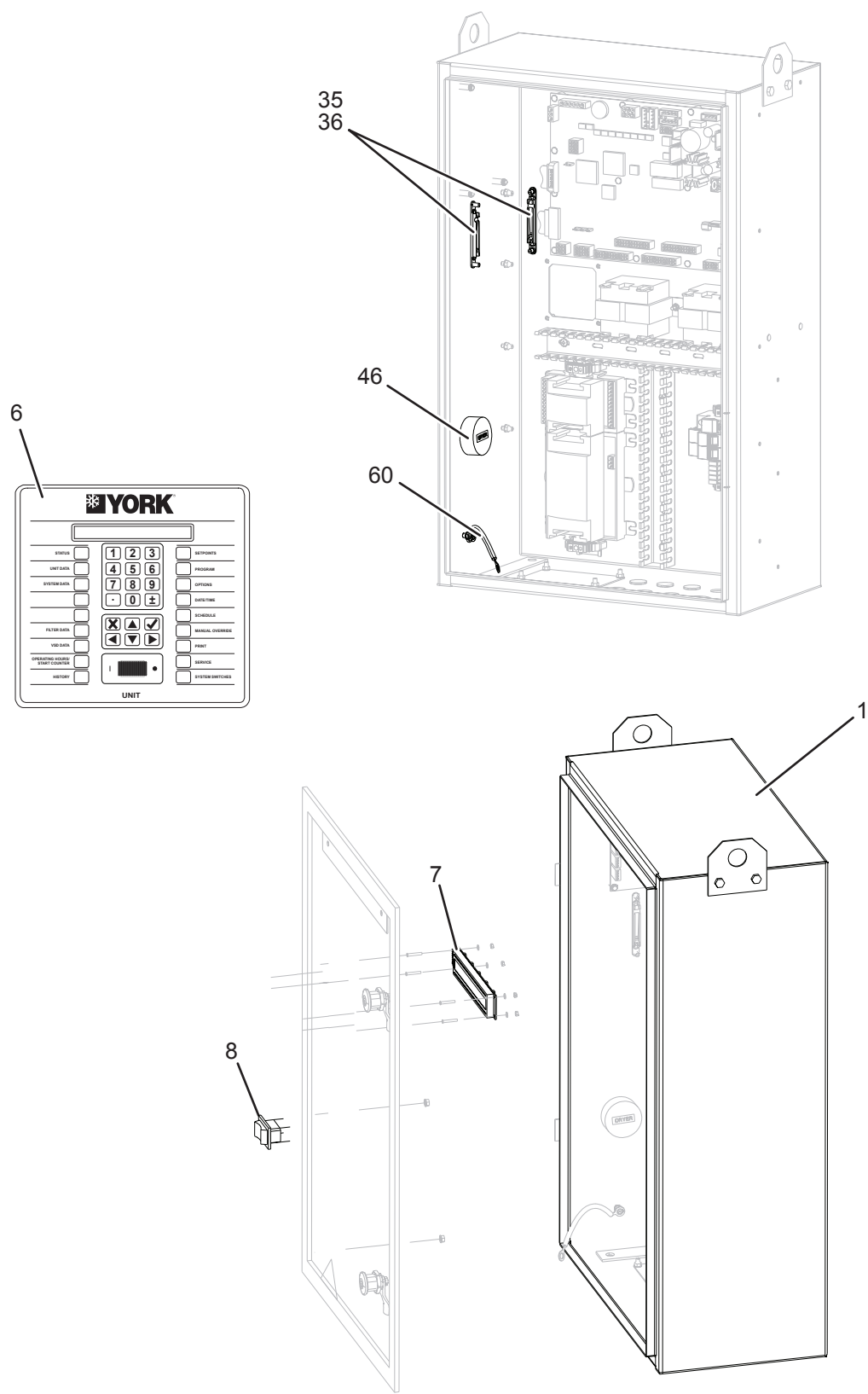


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**FIGURE 49 - POWER WIRING DUAL SYSTEMS**

**TABLE 47 - CONTROL PANEL**

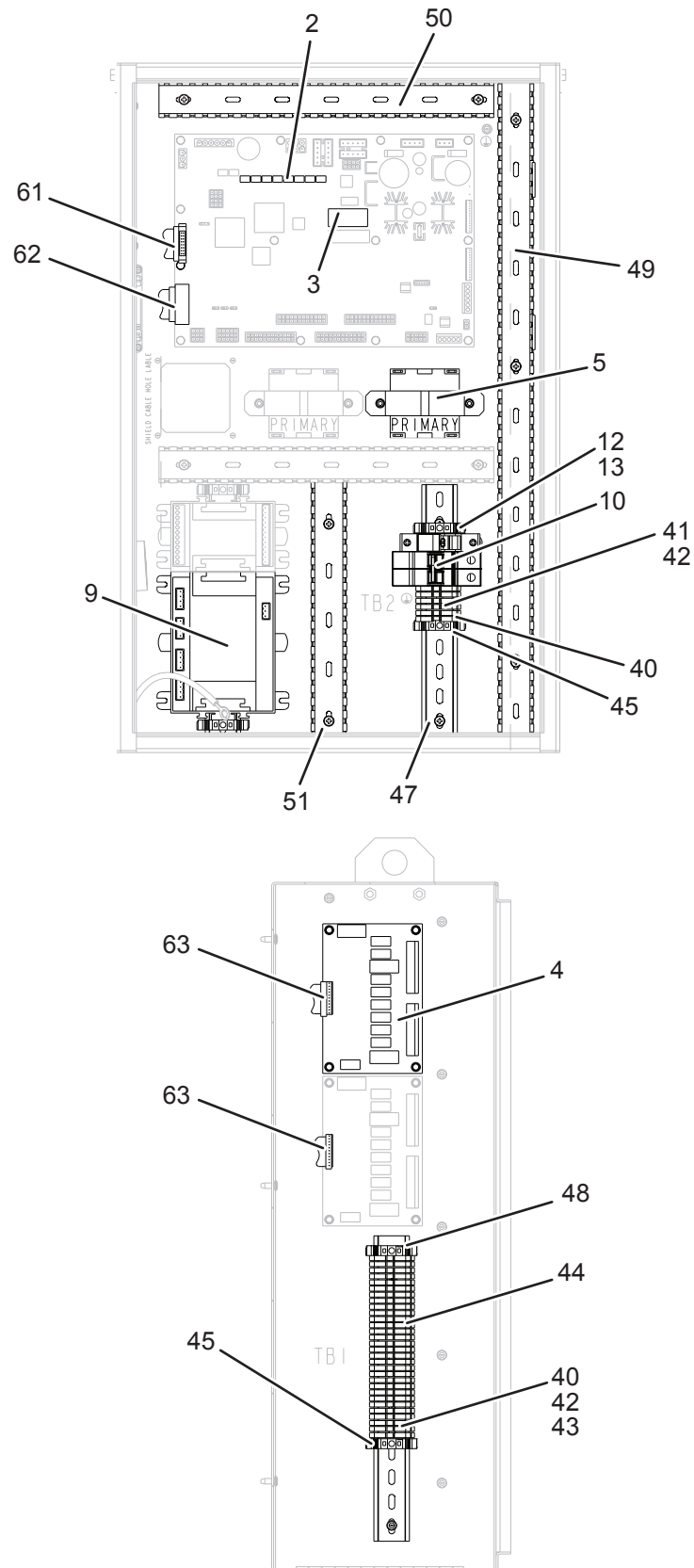
| ITEM | DESCRIPTION                               | YORK PART NUMBER | SAP PART NUMBER | QUANTITY | FIGURE |
|------|-------------------------------------------|------------------|-----------------|----------|--------|
| 1    | Enclosure, Control Panel                  | 392-07170-000    | 720747          | 1        | 50     |
| 2    | Control, Control Board                    | 031-02478-102    | 743908          | 1        | 51     |
| 3    | SD Card with Software (Single Compressor) | 031-03476-040    | 1201880         | 1        | 51     |
|      | SD Card with Software (Dual Compressor)   | 031-03476-030    | 1201879         | 1        | 51     |
|      | Blank SD Card                             | 031-03466-000    | 1152945         | 1        | 51     |
| 4    | Control, Relay Board                      | 031-02479-001    | 340702          | 2        | 51     |
| 5    | Transformer Class 2                       | 025-27911-000    | 1312            | 2        | 51     |
| 6    | Switch, Keypad                            | 024-34930-000    | 247624          | 1        | 50     |
| 7    | Display, LCD                              | 031-02508-000    | 743925          | 1        | 50     |
| 8    | Switch, DPST, Two Position                | 024-34951-000    | 736122          | 1        | 50     |
|      | Switch, Rocker 250.0v 10.00a (IP33)       | 024-38151-000    | 1048545         | 1        |        |
| 9    | Stepper Motor (ETS 250) EEV               | 031-02742-000    | 744082          | 1        | 51     |
| 10   | Circuit Breaker 10.0a 250v 2pole          | 024-33863-573    | 916997          | 1        | 51     |
| 12   | Fuseholder-Modular, 1-Pole                | 025-39951-000    | 359985          | 1        | 51     |
| 13   | Fuse Type=Class CC 2.00a 600v None        | 025-39323-000    | 1128288         | 1        | 51     |
| 35   | Base, Flat Cable Mount                    | 025-42113-000    | 644640          | 2        | 50     |
| 36   | Base, Flat Cable Mount                    | 025-42114-000    | 644641          | 2        | 50     |
| 40   | Terminal Block                            | 025-42501-003    | 549657          | 33       | 51     |
| 41   | Terminal Block                            | 025-42571-004    | 556217          | 3        | 51     |
| 42   | End Plate                                 | 025-42501-008    | 549659          | 2        | 51     |
| 43   | Terminal                                  | 025-42501-013    | 572070          | 2        | 51     |
| 44   | Wired Bridge                              | 025-42501-012    | 549661          | 1        | 51     |
| 45   | End Stop                                  | 025-42501-040    | 507177          | 6        | 51     |
| 46   | Inhibitor, Corrosion                      | 026-37706-000    | 740984          | 1        | 50     |
| 47   | Din Rail L=254mm W=35mm D=7.50mm          | 071-05906-100    | 839867          | 2        | 51     |
| 48   | Din Rail L=304mm W=35mm D=7.50mm          | 071-05906-120    | 839871          | 1        | 51     |
| 49   | Wiring Duct 1                             | 071-06008-104    | 1086171         | 1        | 51     |
| 50   | Wiring Duct 2                             | 071-06008-105    | 1086172         | 2        | 51     |
| 51   | Wiring Duct 3                             | 071-06008-106    | 1086173         | 1        | 51     |
| 60   | Strap Grounding                           | 525-32508-001    | 806677          | 1        | 50     |
| 61   | Cable Ribbon, Display                     | 571-06008-201    | 719671          | 1        | 51     |
| 62   | Cable Ribbon, Keypad                      | 571-06008-202    | 719672          | 1        | 51     |
| 63   | Cable Ribbon, Relay                       | 571-04178-264    | 807009          | 2        | 51     |
| 64   | Harness, Main Wiring                      | 571-06008-301    | 719673          | 1        | *      |
| 78   | Key-Twist Latch                           | 029-23454-000    | 119872          | 1        | *      |
| 80   | Nameplate, Control Panel                  | 029-26818-000    | 1086070         | 1        | *      |



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FIGURE 50 - CONTROL PANEL





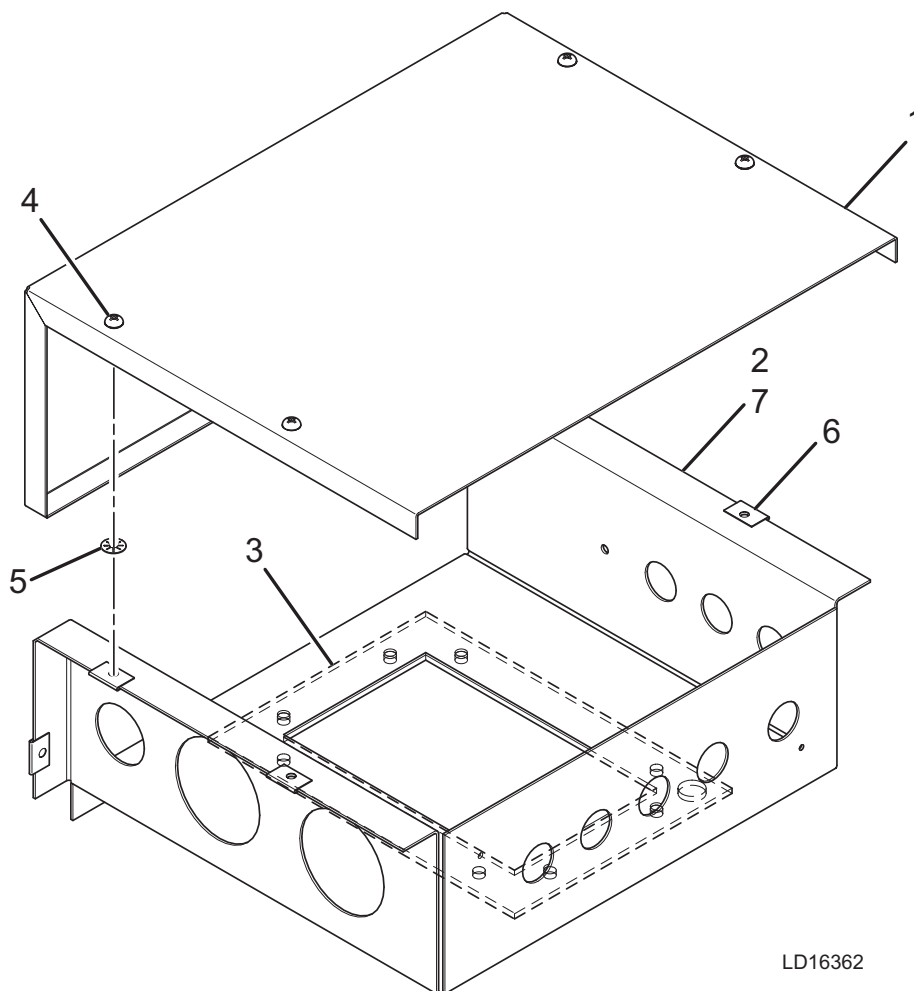
LD18907

**FIGURE 51 - CONTROL PANEL**



**TABLE 48 - JUNCTION BOX**

| ITEM | DESCRIPTION                  | YORK PART NUMBER | SAP PART NUMBER | QUANTITY | FIGURE |
|------|------------------------------|------------------|-----------------|----------|--------|
| -    | JUNCTION BOX ASSY YVWA       | 392-00905-000    | 804762          | 2        | -      |
| 1    | Cover, Junction Box Compr    | 092-00905-100    | 716612          | 4        | 52     |
| 2    | Wrapped, Junction Box        | 092-00905-200    | 716613          | 4        | 52     |
| 3    | Gasket, Compr Junction Box   | 028-15268-000    | 561654          | 4        | 52     |
| 4    | Captive Screw, Quick Opening | 021-19405-000    | 730493          | 24       | 52     |
| 5    | Retainer, Captive Screw      | 021-19406-000    | 730494          | 24       | 52     |
| 6    | Receptacle, Clip-On          | 021-19407-000    | 730495          | 24       | 52     |
| 7    | Strip, 1/8" X 3/4" X Roll    | 028-11995-000    | 741671          | 14       | 52     |



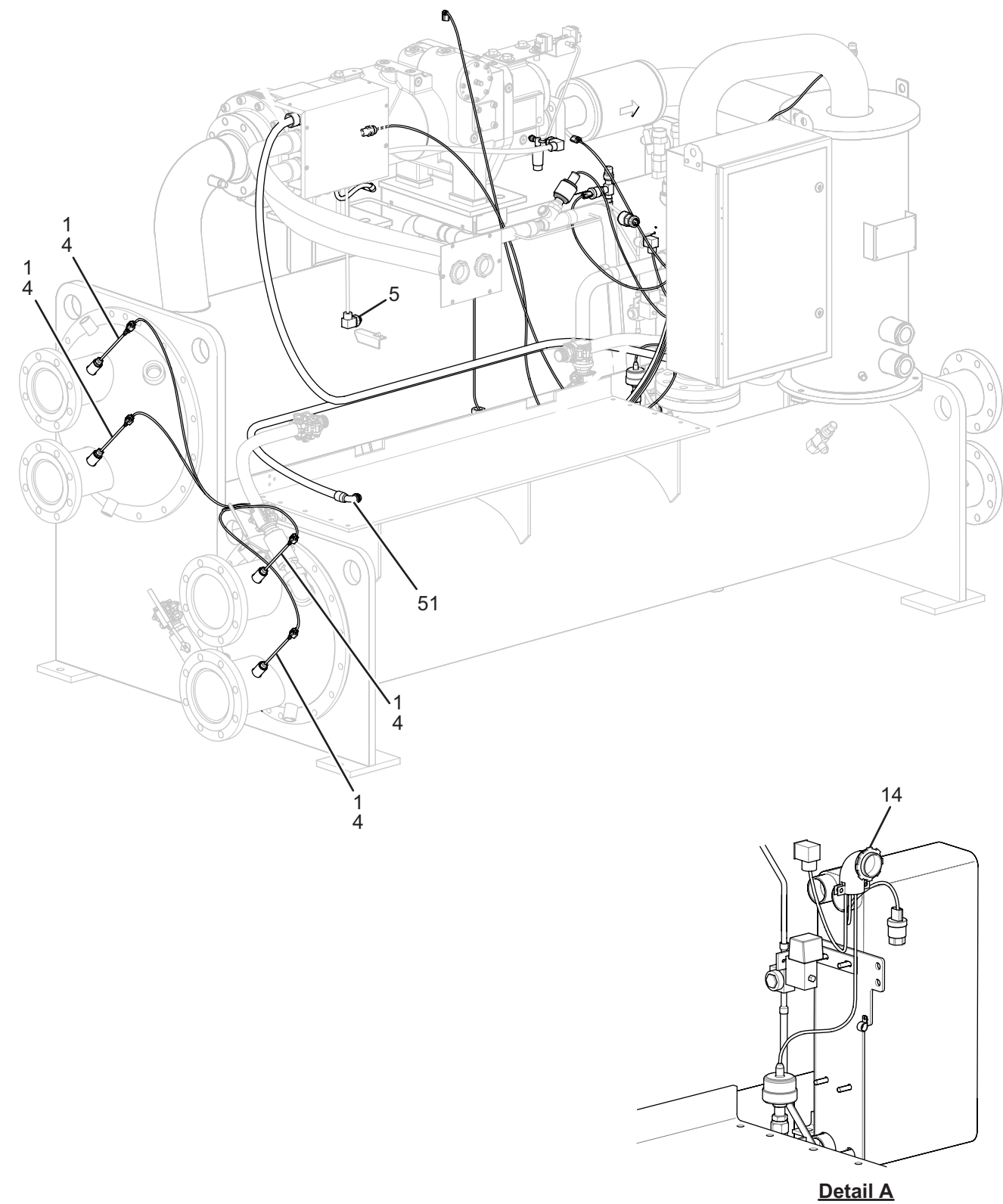
LD16362

**FIGURE 52 - JUNCTION BOX**

**TABLE 49 - CONTROL WIRING SINGLE SYSTEM (COMMON)**

| ITEM | DESCRIPTION                      | PART NUMBER   | SAP    | QUANTITY | FIGURE |
|------|----------------------------------|---------------|--------|----------|--------|
| 1    | Sensor, Temperature 3000 Ohms    | 025-29964-000 | 401192 | 4        | 53     |
| 4    | Well Thermo                      | 026-32328-000 | 1467   | 4        | 53     |
| 5    | Connector, Male Din 43850        | 025-40232-000 | 144690 | 1        | 53     |
| 14   | Gasket Control Panel System      | 028-14485-000 | 144453 | 1        | 53     |
| 18   | Insulation Electrical            | 025-32982-000 | 738790 | 1        | *      |
| 30   | Compr Elec Assy                  | 392-07171-001 | 842026 | 1        | *      |
| 50   | Shield Cable Assy                | 392-07171-002 | 842027 | 1        | *      |
| 51   | HARNESS, CP-VSD LINK             | 592-07172-064 | 842047 | 1        | 53     |
|      | Conduit, 1/2"                    | 025-30473-000 | 618151 | 8.36 ft. |        |
|      | Connector, 1/2" Control Panel    | 025-31310-000 | 556337 | 1        |        |
|      | Connector, 1/2" VSD              | 025-31316-000 | 435091 | 1        |        |
|      | Wire, 4 Cond. W/Foil Shield Wire | 025-32940-000 | 738777 | 144 in.  |        |
|      | Contact Receptacle 24-20 AWG.    | 025-35970-000 | 739256 | 5        |        |
|      | Plug, Hsg. Closed End 5 Circuit  | 025-39990-000 | 739740 | 1        |        |

\* Item not illustrated



LD17764

**FIGURE 53 - CONTROL WIRING SINGLE SYSTEM (COMMON)**

**TABLE 50 - CONTROL WIRING SINGLE SYSTEM (HARNESS)**

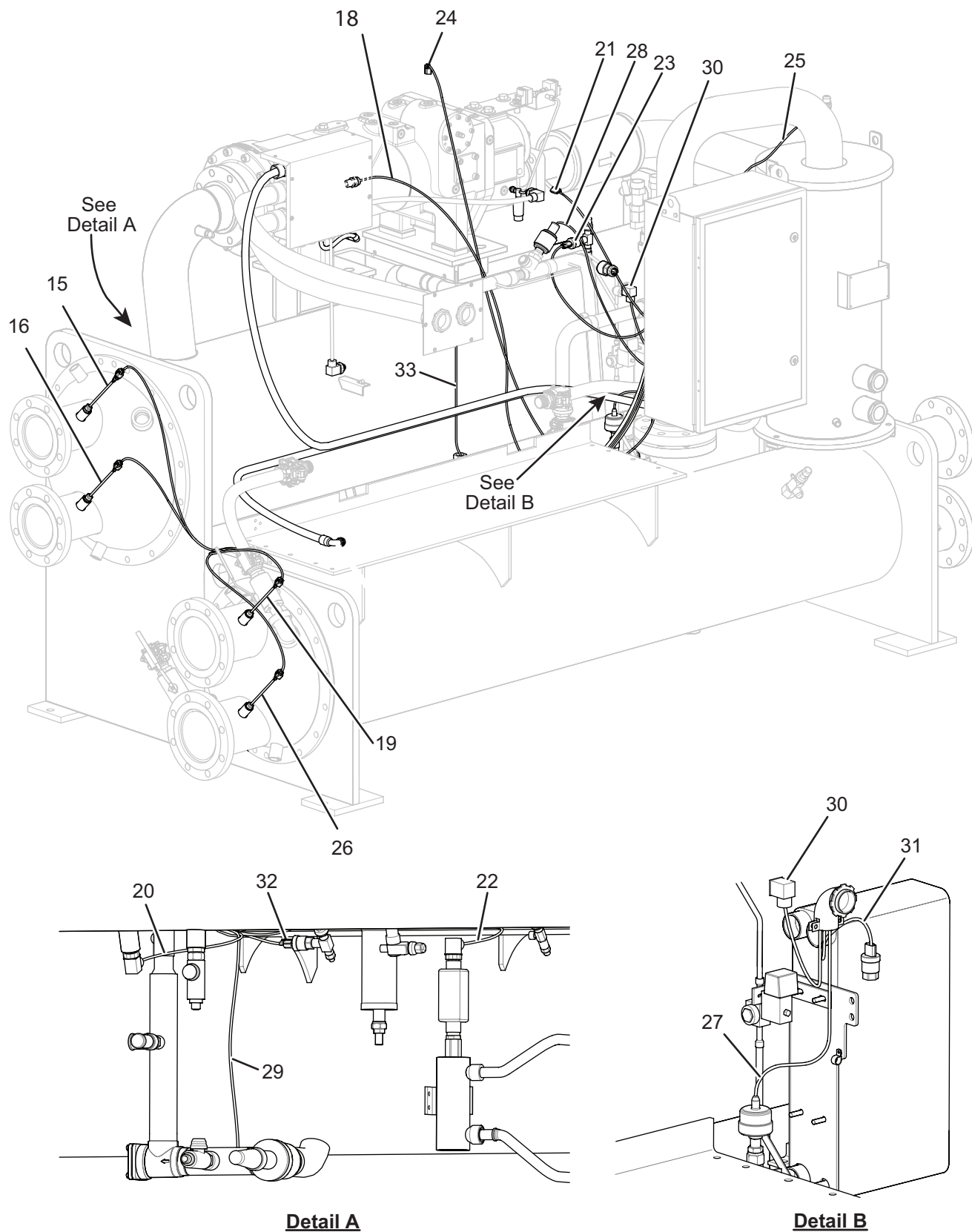
| ITEM | DESCRIPTION                             | PART NUMBER   | SAP    | QUANTITY  | FIGURE |
|------|-----------------------------------------|---------------|--------|-----------|--------|
| 1    | Plate Cover, Control Panel              | 025-39475-104 | 739632 | 1         | *      |
| 2    | Connector, Ca Str 1-1/2" Ins            | 025-39622-000 | 739688 | 1         | *      |
| 5    | Strap, Cable                            | 025-42952-000 | 740184 | 10        | *      |
| 6    | Housing, Connector Plug Mini 9 Ckt Nat  | 025-28383-000 | 737917 | 1         | *      |
| 7    | Housing, Connector Plug Mini 10 Ckt     | 025-39839-000 | 842024 | 1         | *      |
| 8    | Housing, Connector Plug Mini 24 Ckt Wht | 025-34533-000 | 739099 | 3         | *      |
| 15   | HARNESS LEAVING CHILLED TEMP            | 592-07172-001 | 842028 | 1         | 54     |
|      | 2 Cond. Shield Wire                     | 025-30463-002 | 738502 | 150 in.   |        |
|      | Plug Connector                          | 025-28951-000 | 62724  | 1         |        |
|      | Tubing Heat Shrinkable                  | 025-44708-001 | 842819 | 0.042 ft. |        |
|      | Mini- Univ Socket                       | 025-28386-000 | 737925 | 3         |        |
|      | Collar                                  | 025-28950-000 | 65212  | 2         |        |
|      | Contact Recptacle                       | 025-28952-000 | 260    | 2         |        |
| 16   | HARNESS ENTERING CHILLED TEMP           | 592-07172-002 | 842029 | 1         | 54     |
|      | 2 Cond. Shield Wire                     | 025-30463-002 | 738502 | 143 in.   |        |
|      | Plug Connector                          | 025-28951-000 | 62724  | 1         |        |
|      | Tubing Heat Shrinkable                  | 025-44708-001 | 842819 | 0.042 ft. |        |
|      | Mini- Univ Socket                       | 025-28386-000 | 737925 | 3         |        |
|      | Collar                                  | 025-28950-000 | 65212  | 2         |        |
|      | Contact Recptacle                       | 025-28952-000 | 260    | 2         |        |
| 18   | HARNESS COMPR MOTOR TEMP                | 592-07172-004 | 842030 | 1         | 54     |
|      | 4 Cond. Shield Wire                     | 025-32940-000 | 738777 | 104 in.   |        |
|      | Mini- Univ Socket                       | 025-28386-000 | 737925 | 5         |        |
|      | 1/4 Push-On                             | 025-06874-000 | 117021 | 4         |        |
| 19   | HARNESS LEAVING COND TEMP               | 592-07172-006 | 842031 | 1         | 54     |
|      | 2 Cond. Shield Wire                     | 025-30463-002 | 738502 | 148 in.   |        |
|      | Plug Connector                          | 025-28951-000 | 62724  | 1         |        |
|      | Tubing Heat Shrinkable                  | 025-44708-001 | 842819 | 0.042 ft. |        |
|      | Mini- Univ Socket                       | 025-28386-000 | 737925 | 3         |        |
|      | Collar (Leaving Cond. Temp.)            | 025-28950-000 | 65212  | 2         |        |
|      | Contact Recptacle (Leaving Cond. Temp.) | 025-28952-000 | 260    | 2         |        |
| 20   | HARNESS EVAP TEMP                       | 592-07172-007 | 842032 | 1         | 54     |
|      | 2 Cond. Shield Wire                     | 025-30463-002 | 738502 | 64 in.    |        |
|      | Plug Connector                          | 025-28951-000 | 62724  | 1         |        |
|      | Tubing Heat Shrinkable                  | 025-44708-001 | 842819 | 0.042 ft. |        |
|      | Mini- Univ Socket                       | 025-28386-000 | 737925 | 3         |        |
|      | Collar (Evap. Temp. )                   | 025-28950-000 | 65212  | 2         |        |
|      | Contact Recptacle (Evap. Temp.)         | 025-28952-000 | 260    | 2         |        |
| 21   | HARNESS DISCHARGE TEMP                  | 592-07172-008 | 842033 | 1         | 54     |
|      | 2 Cond. Shield Wire                     | 025-30463-002 | 738502 | 40 in.    |        |
|      | Plug Connector                          | 025-28951-000 | 62724  | 1         |        |
|      | Tubing Heat Shrinkable                  | 025-44708-001 | 842819 | 0.042 ft. |        |
|      | Mini- Univ Socket                       | 025-28386-000 | 737925 | 3         |        |
|      | Collar (Disch. Temp. )                  | 025-28950-000 | 65212  | 2         |        |
|      | Contact Recptacle (Disch. Temp.)        | 025-28952-000 | 260    | 2         |        |

**TABLE 50 (CONT'D) - CONTROL WIRING SINGLE SYSTEM (HARNESS)**

| ITEM      | DESCRIPTION                             | PART NUMBER   | SAP    | QUANTITY  | FIGURE |
|-----------|-----------------------------------------|---------------|--------|-----------|--------|
| <b>22</b> | HARNESS COND LEVEL                      | 592-07172-009 | 842034 | 1         | 54     |
|           | 3 Cond. Shield Wire                     | 025-30463-003 | 738503 | 77 in.    |        |
|           | Din 43650 Connector                     | 025-37805-000 | 144713 | 1         |        |
|           | Mini- Univ Socket                       | 025-28386-000 | 737925 | 4         |        |
| <b>23</b> | HARNESS EVAP PRESS                      | 592-07172-010 | 842035 | 1         | 54     |
|           | 3 Cond. Shield Wire                     | 025-30463-003 | 738503 | 46 in.    |        |
|           | Plug Connector                          | 025-28954-000 | 62725  | 1         |        |
|           | Tubing Heat Shrinkable                  | 025-44708-001 | 842819 | 0.042 ft. |        |
|           | Mini- Univ Socket                       | 025-28386-000 | 737925 | 4         |        |
|           | Collar (Evap Press)                     | 025-28950-000 | 65212  | 3         |        |
|           | Contact Recptacle (Evap Press)          | 025-28952-000 | 260    | 3         |        |
| <b>24</b> | HARNESS OIL PRESS                       | 592-07172-011 | 842036 | 1         | 54     |
|           | 3 Cond. Shield Wire                     | 025-30463-003 | 738503 | 102 in.   |        |
|           | Plug Connector                          | 025-28954-000 | 62725  | 1         |        |
|           | Tubing Heat Shrinkable                  | 025-44708-001 | 842819 | 0.042 ft. |        |
|           | Mini- Univ Socket                       | 025-28386-000 | 737925 | 4         |        |
|           | Collar (Oil Press)                      | 025-28950-000 | 65212  | 3         |        |
|           | Contact Recptacle (Oil Press)           | 025-28952-000 | 260    | 3         |        |
| <b>25</b> | HARNESS DISCHARGE PRESS                 | 592-07172-012 | 842037 | 1         | 54     |
|           | 3 Cond. Shield Wire                     | 025-30463-003 | 738503 | 51 in.    |        |
|           | Plug Connector                          | 025-28954-000 | 62725  | 1         |        |
|           | Tubing Heat Shrinkable                  | 025-44708-001 | 842819 | 0.042 ft. |        |
|           | Mini- Univ Socket                       | 025-28386-000 | 737925 | 4         |        |
|           | Collar (Disch. Press)                   | 025-28950-000 | 65212  | 3         |        |
|           | Contact Recptacle (Disch Press)         | 025-28952-000 | 260    | 3         |        |
| <b>26</b> | HARNESS ENTERING COND TEMP              | 592-07172-013 | 842038 | 1         | 54     |
|           | 3 Cond. Shield Wire                     | 025-30463-003 | 738503 | 151 in.   |        |
|           | Plug Connector                          | 025-28954-000 | 62725  | 1         |        |
|           | Tubing Heat Shrinkable                  | 025-44708-001 | 842819 | 0.042 ft. |        |
|           | Mini- Univ Socket                       | 025-28386-000 | 737925 | 3         |        |
|           | Collar (Entering Cond. Temp)            | 025-28950-000 | 65212  | 2         |        |
|           | Contact Recptacle (Entering Cond. Temp) | 025-28952-000 | 260    | 2         |        |
| <b>27</b> | HARNESS ECO FEED VALVE                  | 592-07172-022 | 842039 | 1         | 54     |
|           | 4 Cond. Shield Cable                    | 025-32940-000 | 738777 | 42 in.    |        |
|           | M12 Connector 1838274-2 TE              | 025-44341-279 | 859025 | 1         |        |
| <b>28</b> | HARNESS COND DRAIN VALVE                | 592-07172-023 | 842040 | 1         | 54     |
|           | 4 Cond. Shield Cable                    | 025-32940-000 | 738777 | 54.1 in.  |        |
|           | M12 Connector 1838274-2 TE              | 025-44341-279 | 859025 | 1         |        |
| <b>29</b> | HARNESS SUBCOOLED TEMP                  | 592-07172-027 | 842041 | 1         | 54     |
|           | 2 Cond. Shield Wire                     | 025-30463-002 | 738502 | 66 in.    |        |
|           | Plug Connector                          | 025-28951-000 | 62724  | 1         |        |
|           | Tubing Heat Shrinkable                  | 025-44708-001 | 842819 | 0.042 ft. |        |
|           | Mini- Univ Socket                       | 025-28386-000 | 737925 | 3         |        |
|           | Collar (Sub Liquid Temp)                | 025-28950-000 | 65212  | 2         |        |
|           | Contact Recptacle (Sub Liquid Temp)     | 025-28952-000 | 260    | 2         |        |

**TABLE 50 (CONT'D) - CONTROL WIRING SINGLE SYSTEM (HARNESS)**

| ITEM      | DESCRIPTION                      | PART NUMBER   | SAP    | QUANTITY  | FIGURE |
|-----------|----------------------------------|---------------|--------|-----------|--------|
| <b>30</b> | HARNESS ECO TEMP                 | 592-07172-028 | 842042 | 1         | 54     |
|           | 2 Cond. Shield Wire              | 025-30463-002 | 738502 | 28 in.    |        |
|           | Plug Connector                   | 025-28951-000 | 62724  | 1         |        |
|           | Tubing Heat Shrinkable           | 025-44708-001 | 842819 | 0.042 ft. |        |
|           | Mini- Univ Socket                | 025-28386-000 | 737925 | 3         |        |
|           | Collar (Eco. Temp)               | 025-28950-000 | 65212  | 2         |        |
|           | Contact Recptacle (Eco. Temp)    | 025-28952-000 | 260    | 2         |        |
| <b>31</b> | HARNESS ECO PRESS                | 592-07172-031 | 842043 | 1         | 54     |
|           | 3 Cond. Shield Wire              | 028-30463-003 | -      | 37 in.    |        |
|           | Plug Connector                   | 025-28954-000 | 62725  | 1         |        |
|           | Tubing Heat Shrinkable           | 025-44708-001 | 842819 | 0.042 ft. |        |
|           | Mini- Univ Socket                | 025-28386-000 | 737925 | 4         |        |
|           | Collar (Eco. Press)              | 025-28950-000 | 65212  | 3         |        |
|           | Contact Recptacle (Eco. Press)   | 025-28952-000 | 260    | 3         |        |
| <b>32</b> | HARNESS COND PRESS               | 592-07172-032 | 842044 | 1         | 54     |
|           | 3 Cond. Shield Wire              | 028-30463-003 | -      | 52 in.    |        |
|           | Plug Connector                   | 025-28954-000 | 62725  | 1         |        |
|           | Tubing Heat Shrinkable           | 025-44708-001 | 842819 | 0.042 ft. |        |
|           | Mini- Univ Socket                | 025-28386-000 | 737925 | 4         |        |
|           | Collar (Cond. Press)             | 025-28950-000 | 65212  | 3         |        |
|           | Contact Recptacle (Cond. Press)  | 025-28952-000 | 260    | 3         |        |
| <b>33</b> | HARNESS EDUCTOR TEMP             | 592-07172-050 | 842045 | 1         | 54     |
|           | 2 Cond. Shield Wire              | 025-30463-002 | 738502 | 76 in.    |        |
|           | Plug Connector                   | 025-28951-000 | 62724  | 1         |        |
|           | Tubing Heat Shrinkable           | 025-44708-001 | 842819 | 0.042 ft. |        |
|           | Mini- Univ Socket                | 025-28386-000 | 737925 | 3         |        |
|           | Collar (Educator Temp)           | 025-28950-000 | 65212  | 2         |        |
|           | Contact Recptacle (Eductor Temp) | 025-28952-000 | 260    | 2         |        |



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**FIGURE 54 - SYSTEM WIRING SINGLE SYSTEMS (HARNESS)**

**TABLE 51 - CONTROL WIRING DUAL SYSTEM (COMMON)**

| ITEM | DESCRIPTION               | YORK PART NUMBER | SAP PART NUMBER | QUANTITY | FIGURE |
|------|---------------------------|------------------|-----------------|----------|--------|
| 1    | Sensor Temp 3000 Ohms     | 025-29964-000    | 401192          | 4        | 55     |
| 3    | Strap Cable T&B L4-18-9-M | 025-18167-000    | 588760          | 30       | *      |
| 4    | Well Thermo               | 026-32328-000    | 1467            | 4        | 55     |
| 5    | Connector, Male Din 43850 | 025-40232-000    | 144690          | 2        | *      |
| 14   | Gasket Sensor Harness     | 028-15272-000    | 556341          | 1        | 56     |



**TABLE 52 - CONTROL WIRING DUAL SYSTEM (HARNESS)**

| ITEM      | DESCRIPTION                                 | YORK PART NUMBER | SAP PART NUMBER | QUANTITY | FIGURE |
|-----------|---------------------------------------------|------------------|-----------------|----------|--------|
| <b>1</b>  | COMM PARTS COMPR SUB ASSY                   | -                | -               | -        | -      |
|           | Clamp X-Tra Hvy 7/8 Od 1                    | 023-18276-000    | 64630           | 1        | *      |
|           | Plug, Dome Snapin, Black                    | 028-15328-000    | 394351          | 5        | *      |
| <b>2</b>  | HARNESS SYS2 COMP. HEATER                   | 592-00580-211    | 683103          | -        | 56     |
|           | Heater                                      | 025-32938-000    | 1371            | 1        |        |
|           | Connector, 3/8" Straight                    | 025-31309-000    | 117547          | 1        |        |
|           | Terminal, Pin #20-14Awg                     | 025-20919-000    | 737624          | 2        |        |
| <b>6</b>  | GROUND WIRE TRIDENT                         | 592-00580-230    | 686510          | 1        | 56     |
|           | Wire, #14 Awg Grn/Yel                       | 025-34027-000    | 738983          | .83 ft.  |        |
|           | Ring Tongue, 1/4" 14-16Awg                  | 025-21101-000    | 737633          | 1        |        |
|           | Terminal, Pin #20 20-14Awg                  | 025-20919-000    | 737624          | 1        |        |
| <b>7</b>  | HARNESS COMPRESSOR 2C                       | 592-00580-209    | 683101          | -        | 55     |
|           | Conduit, 1'                                 | 025-31321-000    | 695869          | 3.92 ft. |        |
|           | Connector, 1" Straight                      | 025-31312-000    | 738592          | 2        |        |
|           | Plug, 9 Pin (Panel End)                     | 025-21192-000    | 737649          | 1        |        |
|           | Plug, 12 Pin (Comp End)                     | 025-20787-000    | 737566          | 1        |        |
|           | Connector, Socket                           | 025-19673-000    | 737536          | 9        |        |
|           | Plug, 4 Pin (Panel & Comp End)              | 025-21417-000    | 737658          | 1        |        |
|           | Connr, Socket #14-20AWG                     | 025-19673-000    | 737536          | 26       |        |
| <b>8</b>  | Hsg Connr Electrical Cap                    | 025-20787-000    | 737566          | 1        | *      |
| <b>9</b>  | Fitting Liquid Tight 1/2 Npt                | 025-28720-000    | 117421          | 1        | *      |
| <b>15</b> | HARNESS SYS1 COMPR. TEMP.                   | 592-00580-304    | 716637          | 1        | 55     |
|           | 4 Conductor Shielded Wire                   | 025-32940-000    | 738777          | 127 in.  |        |
|           | Mini-Univ Socket (VSD - P26 Pins 1-5)       | 025-28386-000    | 737925          | 5        |        |
|           | Terminal, Push-On 1/4" (Sys. 1 Comp)        | 025-06874-000    | 117021          | 4        |        |
| <b>16</b> | HARNESS SYS1 CONDENSER LEVEL                | 592-00580-309    | 716639          | 1        | 56     |
|           | 3 Conductor Shielded Wire                   | 025-30463-003    | 738503          | 137 in.  |        |
|           | Din Plug With Strain Relief                 | 025-37805-000    | 144713          | 1        |        |
|           | Socket, Mini-Univ. (VSD End)                | 025-28386-000    | 737925          | 4        |        |
| <b>17</b> | HARNESS LEAVING COND. TEMP.                 | 592-00580-306    | 716640          | 1        | 55     |
|           | 2 Conductor Shielded Wire                   | 025-30463-002    | 738502          | 197 in.  |        |
|           | Plug, Connector                             | 025-28951-000    | 62724           | 1        |        |
|           | Socket, Mini-Univ. (VSD End)                | 025-28386-000    | 737925          | 3        |        |
|           | Collar (Leaving Cond Temp.)                 | 025-28950-000    | 65212           | 2        |        |
|           | Contact Receptacle (Leaving Cond Temp.)     | 025-28952-000    | 260             | 2        |        |
| <b>18</b> | HARNESS SYS1 DISCHARGE TEMP.                | 592-00580-308    | 716651          | 1        | 55     |
|           | 2 Conductor Shielded Wire                   | 025-30463-002    | 738502          | 147 in.  |        |
|           | Plug, Connector (Sys 1 Discharge Temp.)     | 025-28951-000    | 62724           | 1        |        |
|           | Socket, Mini-Univ. (VSD End)                | 025-28386-000    | 737925          | 3        |        |
|           | Collar (Sys 1 Discharge Temp.)              | 025-28950-000    | 65212           | 2        |        |
|           | Contact, Receptacle (Sys 1 Discharge Temp.) | 025-28952-000    | 260             | 2        |        |

**TABLE 52 (CONT'D) - CONTROL WIRING DUAL SYSTEM (HARNESS)**

| ITEM      | DESCRIPTION                                  | YORK PART NUMBER | SAP PART NUMBER | QUANTITY | FIGURE |
|-----------|----------------------------------------------|------------------|-----------------|----------|--------|
| <b>19</b> | HARNESS SYS1 ECO. FEED VALVE                 | 592-00580-322    | 716652          | 1        | 56     |
|           | 4 Conductor Shielded Wire                    | 025-32940-000    | 738777          | 162 in.  |        |
|           | Cap, 4 Position Connector (Econ Valve End)   | 025-39831-000    | 433249          | 1        |        |
|           | Locking Plate (Econ Valve End)               | 025-39945-000    | 433250          | 1        |        |
|           | Socket, Mini-Univ. (VSD End)                 | 025-28386-000    | 737925          | 4        |        |
|           | Collar (Econ Valve End)                      | 025-28957-000    | 117435          | 4        |        |
|           | Tab Contact (Econ Valve End)                 | 025-39949-000    | 433248          | 4        |        |
| <b>20</b> | HARNESS SYS1 COND. DRAIN VALVE               | 592-00580-323    | 716654          | 1        | 55     |
|           | 4 Conductor Shielded Wire                    | 025-32940-000    | 738777          | 127 in.  |        |
|           | Cap, 4 Position Connector (Cond Drain Valve) | 025-39831-000    | 433249          | 1        |        |
|           | Locking Plate (Cond Drain Valve)             | 025-39945-000    | 433250          | 1        |        |
|           | Socket, Mini-Univ. (VSD End)                 | 025-28386-000    | 737925          | 4        |        |
|           | Collar (Econ Valve End)                      | 025-28957-000    | 117435          | 4        |        |
|           | Tab Contact (Econ Valve End)                 | 025-39949-000    | 433248          | 4        |        |
| <b>21</b> | HARNESS SYS1 EVAP. PRESSURE                  | 592-00580-310    | 716655          | 1        | *      |
|           | 3 Conductor Shielded Wire                    | 025-30463-003    | 738503          | 112 in.  |        |
|           | Plug, Connector (Evap Pressure End)          | 025-28954-000    | 62725           | 1        |        |
|           | Socket, Mini-Univ. (VSD End)                 | 025-28386-000    | 737925          | 4        |        |
|           | Collar (Evap Pressure End)                   | 025-28950-000    | 65212           | 4        |        |
|           | Contact Receptacle (Evap Pressure End)       | 025-28952-000    | 260             | 3        |        |
| <b>22</b> | HARNESS SYS1 OIL PRESSURE                    | 592-00580-311    | 716657          | 1        | 55, 56 |
|           | 3 Conductor Shielded Wire                    | 025-30463-003    | 738503          | 152 in.  |        |
|           | Plug, Connector (Oil Pressure End)           | 025-28954-000    | 62725           | 1        |        |
|           | Socket, Mini-Univ. (VSD Panel End)           | 025-28386-000    | 737925          | 4        |        |
|           | Collar (Oil Pressure End)                    | 025-28950-000    | 65212           | 3        |        |
|           | Contact Receptacle (Oil Pressure End)        | 025-28952-000    | 260             | 3        |        |
| <b>23</b> | HARNESS SYS1 DISCHARGE PRESS.                | 592-00580-312    | 716659          | 1        | 55     |
|           | 3 Conductor Shielded Wire                    | 025-30463-003    | 738503          | 152 in.  |        |
|           | Plug, Connector (Disch Pressure End)         | 025-28954-000    | 62725           | 1        |        |
|           | Socket, Mini-Univ. (VSD Panel End)           | 025-28386-000    | 737925          | 4        |        |
|           | Collar (Disch Pressure End)                  | 025-28950-000    | 65212           | 3        |        |
|           | Contact Receptacle (Disch Pressure End)      | 025-28952-000    | 260             | 3        |        |
| <b>24</b> | HARNESS SYS1 EVAPORATOR TEMP.                | 592-00580-307    | 716660          | 1        | 56     |
|           | 2 Conductor Shielded Wire                    | 025-30463-002    | 738502          | 147 in.  |        |
|           | Din Plug W/ Strain Relief                    | 025-37805-000    | 144713          | 1        |        |
|           | Socket, Mini-Univ. (VSD Panel End)           | 025-28386-000    | 737925          | 3        |        |
| <b>25</b> | HARNESS SYS2 COMPR. TEMP.                    | 592-00580-305    | 716661          | 1        | 56     |
|           | 4 Conductor Shielded Wire                    | 025-32940-000    | 738777          | 102 in.  |        |
|           | Socket, Mini-Univ. (VSD Panel End)           | 025-28386-000    | 737925          | 5        |        |
|           | Terminal, Push-On 1/4" (Comp End)            | 025-06874-000    | 117021          | 4        |        |

**TABLE 52 (CONT'D) - CONTROL WIRING DUAL SYSTEM (HARNESS)**

| ITEM      | DESCRIPTION                                     | YORK PART NUMBER | SAP PART NUMBER | QUANTITY | FIGURE |
|-----------|-------------------------------------------------|------------------|-----------------|----------|--------|
| <b>26</b> | HARNESS SYS2 CONDENSER LEVEL                    | 592-00580-316    | 716663          | 1        | 56     |
|           | 3 Conductor Shielded Wire                       | 025-30463-003    | 738503          | 82 in.   |        |
|           | Din Plug W/ Strain Relief (Condenser Level End) | 025-37805-000    | 144713          | 1        |        |
|           | Socket, Mini-Univ. (VSD Panel End)              | 025-28386-000    | 737925          | 4        |        |
| <b>27</b> | HARNESS ENTERING COND. TEMP.                    | 592-00580-313    | 716664          | 1        | 55     |
|           | 2 Conductor Shielded Wire                       | 025-30463-002    | 738502          | 197 in.  |        |
|           | Plug, Connector (Condenser Temp End)            | 025-28951-000    | 62724           | 1        |        |
|           | Socket, Mini-Univ. (VSD Panel End)              | 025-28386-000    | 737925          | 3        |        |
|           | Collar (Condenser Temp End)                     | 025-28950-000    | 65212           | 2        |        |
|           | Contact Receptacle (Condenser Temp End)         | 025-28952-000    | 260             | 2        |        |
| <b>28</b> | HARNESS SYS2 DISCHARGE TEMP.                    | 592-00580-315    | 716665          | 1        | 56     |
|           | 2 Conductor Shielded Wire                       | 025-30463-002    | 738502          | 102 in.  |        |
|           | Plug, Connector (Disch Temp End)                | 025-28951-000    | 62724           | 1        |        |
|           | Socket, Mini-Univ. (VSD Panel End)              | 025-28386-000    | 737925          | 3        |        |
|           | Collar (Disch Temp End)                         | 025-28950-000    | 65212           | 2        |        |
|           | Contact Receptacle (Disch Temp End)             | 025-28952-000    | 260             | 2        |        |
| <b>29</b> | HARNESS SYS2 ECO. FEED VALVE                    | 592-00580-320    | 716666          | 1        | 55, 56 |
|           | 4 Conductor Shielded Wire                       | 025-32940-000    | 738777          | 97 in.   |        |
|           | Cap, 4 Position Connector (Econ Feed Valve End) | 025-39831-000    | 433249          | 1        |        |
|           | Locking Plate (Econ Feed Valve End)             | 025-39945-000    | 433250          | 1        |        |
|           | Socket, Mini-Univ. (VSD Panel End)              | 025-28386-000    | 737925          | 4        |        |
|           | Collar (Econ Feed Valve End)                    | 025-28957-000    | 117435          | 4        |        |
|           | Tab Contact (Econ Feed Valve End)               | 025-39949-000    | 433248          | 4        |        |
| <b>30</b> | HARNESS SYS2 COND. DRAIN VALVE                  | 592-00580-321    | 716668          | 1        | 55     |
|           | 4 Conductor Shielded Wire                       | 025-32940-000    | 738777          | 67 in.   |        |
|           | Cap, 4 Position Connector (Cond Drain Valve)    | 025-39831-000    | 433249          | 1        |        |
|           | Locking Plate (Cond Drain Valve)                | 025-39945-000    | 433250          | 1        |        |
|           | Socket, Mini-Univ. (VSD Panel End)              | 025-28386-000    | 737925          | 4        |        |
|           | Collar (Cond Drain Valve)                       | 025-28957-000    | 117435          | 4        |        |
|           | Tab Contact (Cond Drain Valve)                  | 025-39949-000    | 433248          | 4        |        |
| <b>31</b> | HARNESS SYS2 EVAP. PRESSURE                     | 592-00580-317    | 716669          | 1        | 55     |
|           | 3 Conductor Shielded Wire                       | 025-30463-003    | 738503          | 52 in.   |        |
|           | Plug, Connector (Evap Pressure End)             | 025-28954-000    | 62725           | 1        |        |
|           | Socket, Mini-Univ. (VSD Panel End)              | 025-28386-000    | 737925          | 4        |        |
|           | Collar (Evap Pressure End)                      | 025-28950-000    | 65212           | 3        |        |
|           | Contact Receptacle (Evap Pressure End)          | 025-28952-000    | 260             | 3        |        |
| <b>32</b> | HARNESS SYS2 OIL PRESSURE                       | 592-00580-318    | 716671          | 1        | 55, 56 |
|           | 3 Conductor Shielded Wire                       | 025-30463-003    | 738503          | 102 in.  |        |
|           | Plug, Connector (Oil Pressure End)              | 025-28954-000    | 62725           | 1        |        |
|           | Socket, Mini-Univ. (VSD Panel End)              | 025-28386-000    | 737925          | 4        |        |
|           | Collar (Oil Pressure End)                       | 025-28950-000    | 65212           | 3        |        |
|           | Contact Receptacle (Oil Pressure End)           | 025-28952-000    | 260             | 3        |        |

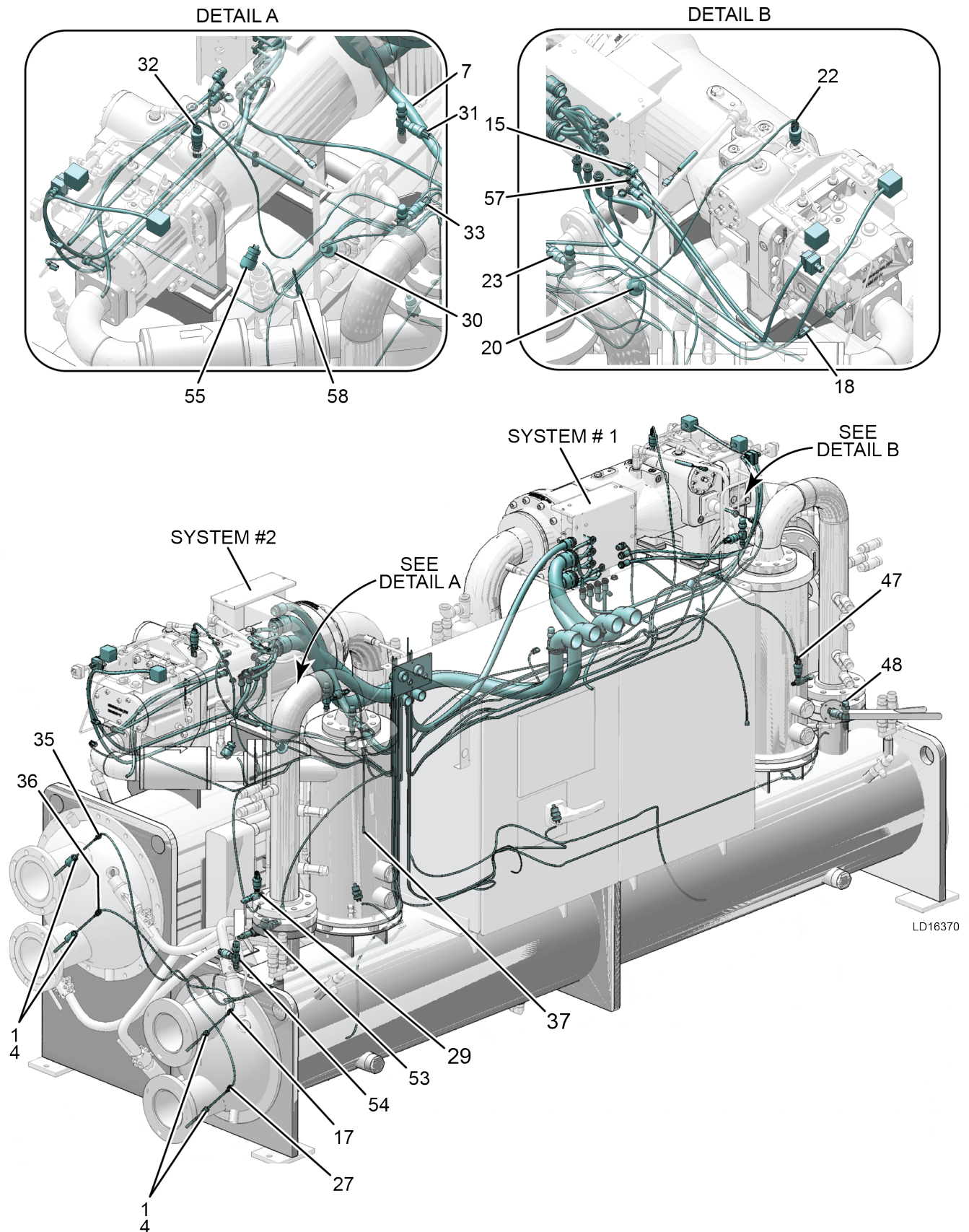
**TABLE 52 (CONT'D) - CONTROL WIRING DUAL SYSTEM (HARNESS)**

| ITEM      | DESCRIPTION                                           | YORK PART NUMBER | SAP PART NUMBER | QUANTITY | FIGURE |
|-----------|-------------------------------------------------------|------------------|-----------------|----------|--------|
| <b>33</b> | HARNESS SYS2 DISCHARGE PRESS.                         | 592-00580-319    | 716675          | 1        | 55     |
|           | 3 Conductor Shielded Wire                             | 025-30463-003    | 738503          | 92 in.   |        |
|           | Plug, Connector (Disch Pressure End)                  | 025-28954-000    | 62725           | 1        |        |
|           | Socket, Mini-Univ. (VSD Panel End)                    | 025-28386-000    | 737925          | 4        |        |
|           | Collar (Disch Pressure End)                           | 025-28950-000    | 65212           | 3        |        |
|           | Contact Receptacle (Disch Pressure End)               | 025-28952-000    | 260             | 3        |        |
| <b>34</b> | HARNESS SYS2 EVAPORATOR TEMP.                         | 592-00580-314    | 716678          | 1        | 56     |
|           | 2 Conductor Shielded Wire                             | 025-30463-002    | 738502          | 92 in.   |        |
|           | Din Plug W/ Strain Relief (Evap Temp End)             | 025-37805-000    | 144713          | 1        |        |
|           | Socket, Mini-Univ. (VSD Panel End)                    | 025-28386-000    | 737925          | 3        |        |
| <b>35</b> | HARNESS LEAVING CHILLED TEMP.                         | 592-00580-301    | 716680          | 1        | 55     |
|           | 2 Conductor Shielded Wire                             | 025-30463-002    | 738502          | 102 in.  |        |
|           | Plug, Connector (Leaving Chilled Liquid Temp)         | 025-28951-000    | 62724           | 1        |        |
|           | Socket, Mini-Univ. (VSD Panel End)                    | 025-28386-000    | 737925          | 3        |        |
|           | Collar (Leaving Chilled Liquid Temp)                  | 025-28950-000    | 65212           | 2        |        |
|           | Contact Recep (Leaving Chilled Liquid Temp)           | 025-28952-000    | 260             | 2        |        |
| <b>36</b> | HARNESS ENTERING CHILLED TEMP.                        | 592-00580-302    | 716682          | 1        | 55     |
|           | 2 Conductor Shielded Wire                             | 025-30463-002    | 738502          | 202 in.  |        |
|           | Plug, Connector (Entering Chilled Liquid Temp)        | 025-28951-000    | 62724           | 1        |        |
|           | Socket, Mini-Univ. (VSD Panel End)                    | 025-28386-000    | 737925          | 3        |        |
|           | Collar (Entering Chilled Liquid Temp)                 | 025-28950-000    | 65212           | 2        |        |
|           | Contact Recep (Entering Chilled Liquid Temp)          | 025-28952-000    | 260             | 2        |        |
| <b>37</b> | HARNESS AMBIENT AIR TEMP.                             | 592-00580-303    | 716683          | 1        | 55     |
|           | 2 Conductor Shielded Wire                             | 025-30463-002    | 738502          | 67 in.   |        |
|           | Plug, Connector (Ambient Air Temp End)                | 025-28951-000    | 62724           | 1        |        |
|           | Socket, Mini-Univ. (VSD Panel End)                    | 025-28386-000    | 737925          | 3        |        |
|           | Collar (Ambient Air Temp End)                         | 025-28950-000    | 65212           | 2        |        |
|           | Contact Recep (Ambient Air Temp End)                  | 025-28952-000    | 260             | 2        |        |
| <b>39</b> | HARNESS SYS1 SUBCOOLED TEMP.                          | 592-00580-327    | 716685          | 1        | 56     |
|           | 2 Conductor Shielded Wire                             | 025-30463-002    | 738502          | 167 in.  |        |
|           | Din Plug w/ Strain Relief (Sub-Cool Liquid Temp. End) | 025-37805-000    | 738502          | 1        |        |
|           | Socket, Mini-Univ. (VSD Panel End)                    | 025-28386-000    | 737925          | 3        |        |
| <b>40</b> | HARNESS SYS2 SUBCOOLED TEMP.                          | 592-00580-338    | 716686          | 1        | 56     |
|           | 2 Conductor Shielded Wire                             | 025-30463-002    | 738502          | 102 in.  |        |
|           | Din Plug w/ Strain Relief (Sub-Cool Liquid Temp. End) | 025-37805-000    | 144713          | 1        |        |
|           | Socket, Mini-Univ. (VSD Panel End)                    | 025-28386-000    | 737925          | 3        |        |
| <b>47</b> | HARNESS SYS1 ECO. PRESSURE                            | 592-00580-331    | 716688          | 1        | 55, 56 |
|           | 3 Conductor Shielded Wire                             | 025-30463-003    | 738503          | 137 in.  |        |
|           | Plug, Connector (Economizer Pressure End)             | 025-28954-000    | 62725           | 1        |        |
|           | Socket, Mini-Univ. (VSD Panel End)                    | 025-28386-000    | 737925          | 3        |        |
|           | Collar (Economizer Pressure End)                      | 025-28950-000    | 65212           | 2        |        |
|           | Contact Receptacle (Economizer Pressure End)          | 025-28952-000    | 260             | 2        |        |

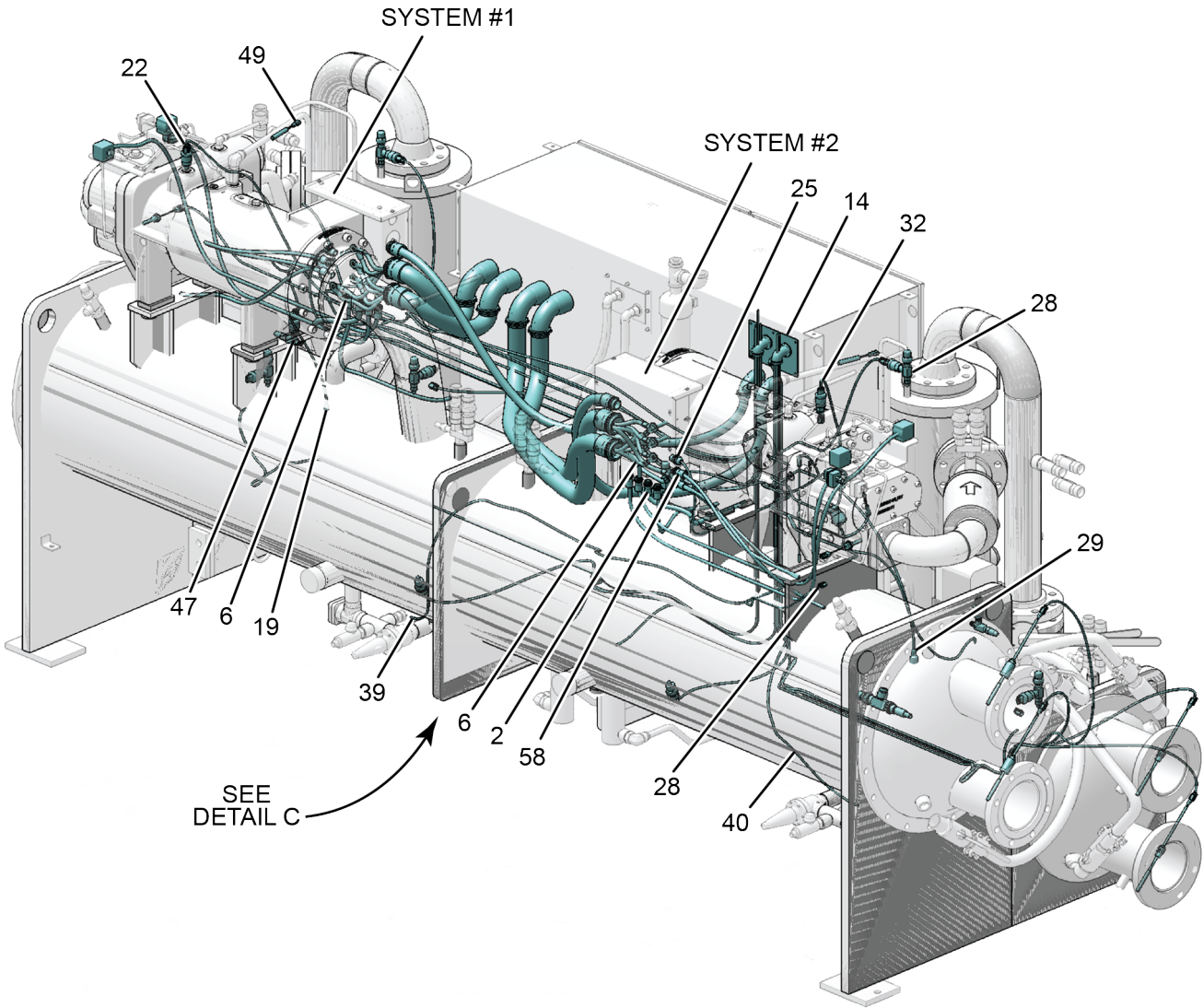
**TABLE 52 (CONT'D) - CONTROL WIRING DUAL SYSTEM (HARNESS)**

| ITEM | DESCRIPTION                                  | YORK PART NUMBER | SAP PART NUMBER | QUANTITY | FIGURE |
|------|----------------------------------------------|------------------|-----------------|----------|--------|
| 48   | HARNESS SYS1 COND. PRESSURE                  | 592-00580-332    | 716690          | 1        | 55     |
|      | 3 Conductor Shielded Wire                    | 025-30463-003    | 738503          | 197 in.  |        |
|      | Plug, Connector (Condenser Pressure End)     | 025-28954-000    | 62725           | 1        |        |
|      | Socket, Mini-Univ. (VSD Panel End)           | 025-28386-000    | 737925          | 4        |        |
|      | Collar (Condenser Pressure End)              | 025-28950-000    | 65212           | 3        |        |
|      | Contact Receptacle (Condenser Pressure End)  | 025-28952-000    | 260             | 3        |        |
| 49   | HARNESS SYS1 ECO. TEMP.                      | 592-00580-328    | 716691          | 1        | 56     |
|      | 3 Conductor Shielded Wire                    | 025-30463-003    | 738503          | 137 in.  |        |
|      | Plug, Connector (Economizer Temp End)        | 025-28951-000    | 62724           | 1        |        |
|      | Socket, Mini-Univ. (VSD Panel End)           | 025-28386-000    | 737925          | 3        |        |
|      | Collar (Economizer Temp End)                 | 025-28950-000    | 65212           | 2        |        |
|      | Contact Receptacle (Economizer Temp End)     | 025-28952-000    | 260             | 2        |        |
| 53   | HARNESS SYS2 ECO. PRESSURE                   | 592-00580-342    | 716692          | 1        | 55     |
|      | 3 Conductor Shielded Wire                    | 025-30463-003    | 738503          | 77"      |        |
|      | Plug, Connector (Economizer Pressure End)    | 025-28954-000    | 62725           | 1        |        |
|      | Socket, Mini-Univ. (VSD Panel End)           | 025-28386-000    | 737925          | 3        |        |
|      | Collar (Economizer Pressure End)             | 025-28950-000    | 65212           | 2        |        |
|      | Contact Receptacle (Economizer Pressure End) | 025-28952-000    | 260             | 2        |        |
| 54   | HARNESS SYS2 COND. PRESSURE                  | 592-00580-343    | 716693          | 1        | 55     |
|      | 3 Conductor Shielded Wire                    | 025-30463-003    | 738503          | 137 in.  |        |
|      | Plug, Connector (Condenser Pressure End)     | 025-28954-000    | 62725           | 1        |        |
|      | Socket, Mini-Univ. (VSD Panel End)           | 025-28386-000    | 737925          | 3        |        |
|      | Collar (Condenser Pressure End)              | 025-28950-000    | 65212           | 2        |        |
|      | Contact Receptacle (Condenser Pressure End)  | 025-28952-000    | 260             | 2        |        |
| 55   | HARNESS SYS2 ECO. TEMP.                      | 592-00580-339    | 716695          | 1        | 55     |
|      | 2 Conductor Shielded Wire                    | 025-30463-002    | 738502          | 77 in.   |        |
|      | Plug, Connector (Economizer Temperature End) | 025-28951-000    | 62724           | 1        |        |
|      | Socket, Mini-Univ. (VSD Panel End)           | 025-28386-000    | 737925          | 3        |        |
|      | Collar (Economizer Temperature End)          | 025-28950-000    | 65212           | 2        |        |
|      | Contact Receptacle (Economizer Temp. End)    | 025-28952-000    | 260             | 2        |        |
| 57   | HARNESS SYS1 EDUCTOR TEMP.                   | 592-00580-350    | 808771          | 1        | 55     |
|      | 2 Conductor Shielded Wire                    | 025-30463-002    | 738502          | 141 in.  |        |
|      | Plug, Connector (Eductor Temperature End)    | 025-28951-000    | 62724           | 1        |        |
|      | Socket, Mini-Univ. (VSD Panel End)           | 025-28386-000    | 737925          | 3        |        |
|      | Collar (Eductor Temperture End)              | 025-28950-000    | 65212           | 2        |        |
|      | Contact Receptacle (Eductor Temperature End) | 025-28952-000    | 260             | 2        |        |
| 58   | HARNESS SYS2 EDUCTOR TEMP.                   | 592-00580-351    | 808772          | 1        | 55, 56 |
|      | 2 Conductor Shielded Wire                    | 025-30463-002    | 738502          | 83 in.   |        |
|      | Plug, Connector (Eductor Temperature End)    | 025-28951-000    | 62724           | 1        |        |
|      | Socket, Mini-Univ. (VSD Panel End)           | 025-28386-000    | 737925          | 3        |        |
|      | Collar (Eductor Temperature End)             | 025-28950-000    | 65212           | 2        |        |
|      | Contact Receptacle (Eductor Temperature End) | 025-28952-000    | 260             | 2        |        |

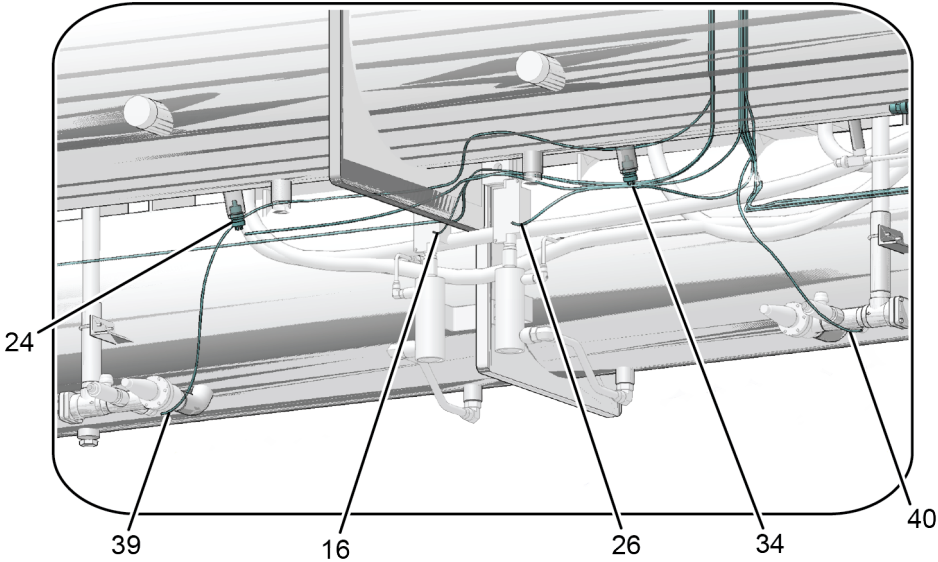




**FIGURE 55 - SYSTEM WIRING**



DETAIL C



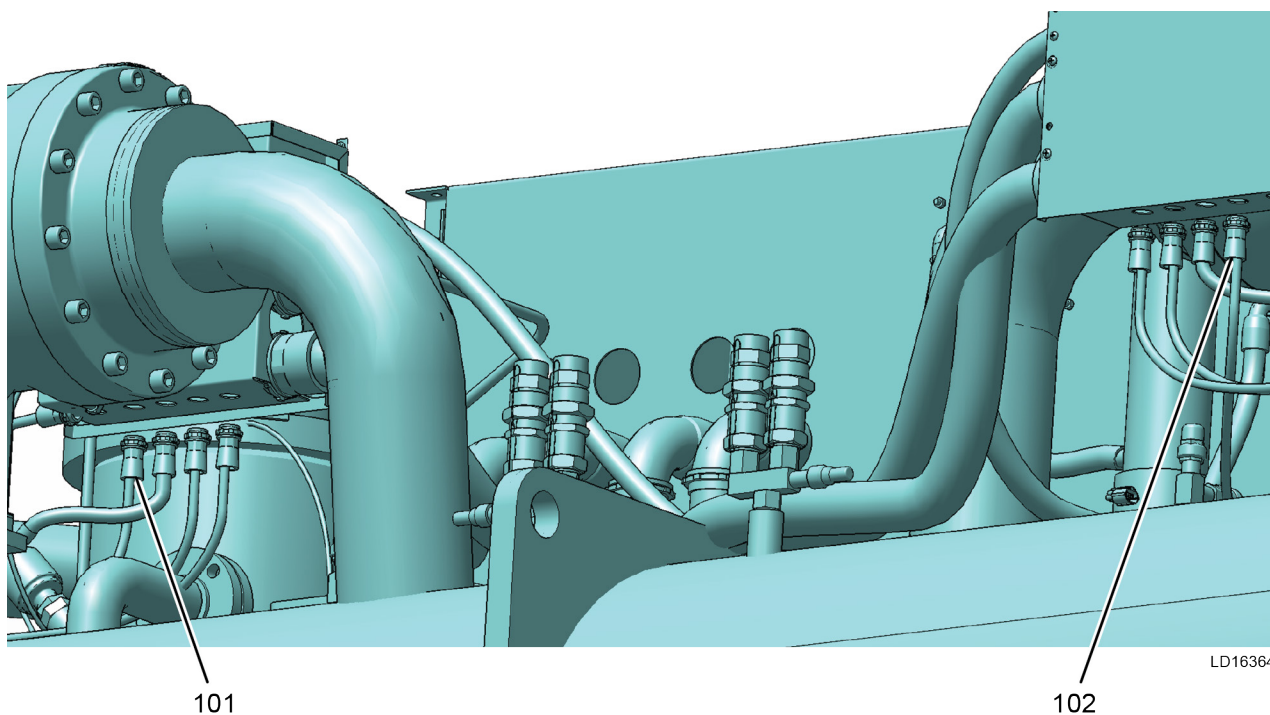
LD16371

FIGURE 56 - SYSTEM WIRING

**TABLE 53 - LIQUID INJECTION WIRING (OPTIONAL)**

| ITEM | DESCRIPTION                             | YORK PART NUMBER | SAP PART NUMBER | QUANTITY | FIGURE |
|------|-----------------------------------------|------------------|-----------------|----------|--------|
| 101  | HARNESS SYS1 LIQUID INJE. SV            | 592-00580-216    | 821100          | 1        | 57     |
|      | Conduit, 3/8 35in                       | 025-31302-000    | 618155          | 1        |        |
|      | Connector, 3/8                          | 025-31309-000    | 117547          | 2        |        |
|      | Plug, DIN (SYS1 Liquid Injection End)   | 025-37876-000    | 117987          | 1        |        |
|      | Terminal Pin #20-14AWG (Compressor End) | 025-20919-000    | 737624          | 2        |        |
| 102  | HARNESS SYS2 LIQUID INJE. SV            | 592-00580-220    | 821196          | 1        | 57     |
|      | Conduit, 3/8 35in                       | 025-31302-000    | 618155          | 1        |        |
|      | Connector, 3/8                          | 025-31309-000    | 117547          | 2        |        |
|      | Plug, DIN (SYS2 Liquid Injection End)   | 025-37876-000    | 117987          | 1        |        |
|      | Terminal Pin #20-14AWG (Compressor End) | 025-20919-000    | 737624          | 2        |        |

**NOTE:** Items with an \* are NOT represented.



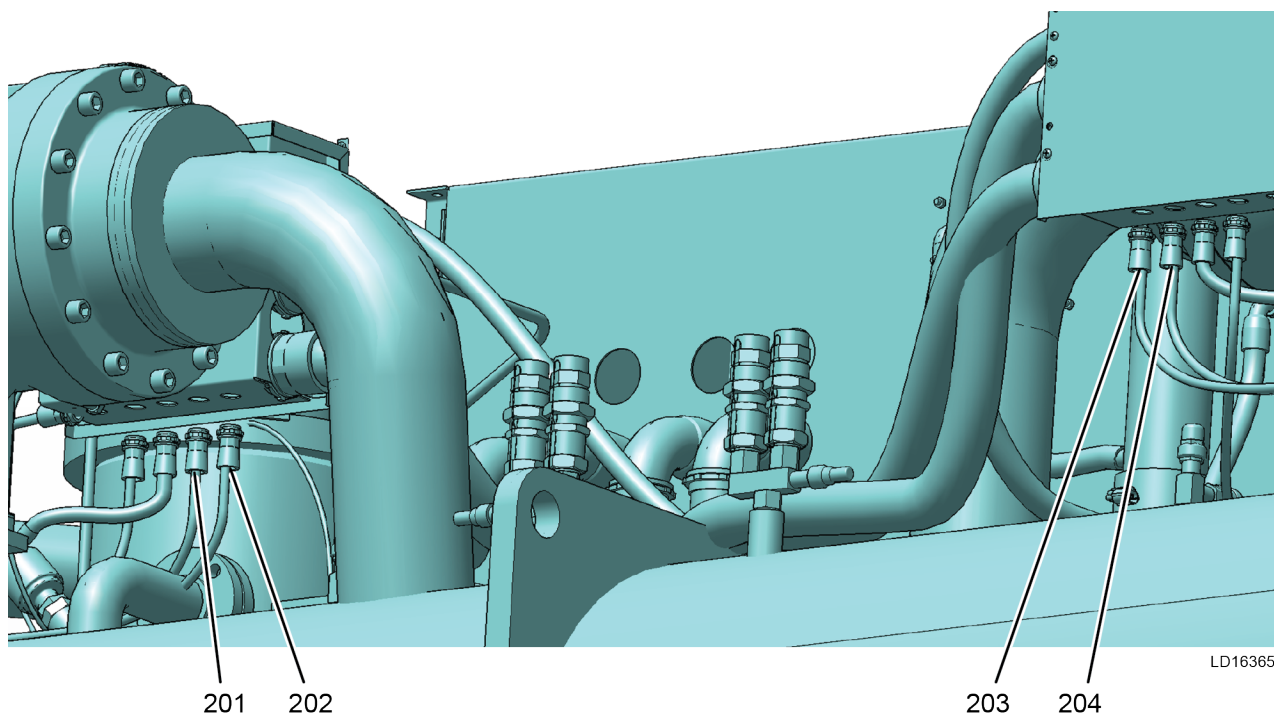
**FIGURE 57 - LIQUID INJECTION WIRING**



**TABLE 54 - STEP VI WIRING (OPTIONAL)**

| ITEM       | DESCRIPTION                             | YORK PART NUMBER | SAP PART NUMBER | QUANTITY | FIGURE |
|------------|-----------------------------------------|------------------|-----------------|----------|--------|
| <b>201</b> | HARNESS SYS1 LIQUID INJE. SV            | 592-00580-214    | 821096          | 1        | 58     |
|            | Conduit, 3/8"                           | 025-31302-000    | 618155          | 5.76'    |        |
|            | Connector, 3/8"                         | 025-31309-000    | 117547          | 2        |        |
|            | Connector, DIN Plug (SYS1 SV1 End)      | 025-37876-000    | 117987          | 1        |        |
|            | Terminal Pin #20-14AWG (Compressor End) | 025-20919-000    | 737624          | 2        |        |
| <b>202</b> | HARNESS SYS2 LIQUID INJE. SV            | 592-00580-215    | 821098          | 1        | 58     |
|            | Conduit, 3/8"                           | 025-31302-000    | 618155          | 6.58'    |        |
|            | Connector, 3/8"                         | 025-31309-000    | 117547          | 2        |        |
|            | Connector, DIN Plug (SYS1 SV2 End)      | 025-37876-000    | 117987          | 1        |        |
|            | Terminal Pin #20-14AWG (Compressor End) | 025-20919-000    | 737624          | 2        |        |
| <b>203</b> | HARNESS SYS1 LIQUID INJE. SV            | 592-00580-218    | 821192          | 1        | 58     |
|            | Conduit, 3/8"                           | 025-31302-000    | 618155          | 5.67'    |        |
|            | Connector, 3/8"                         | 025-31309-000    | 117547          | 2        |        |
|            | Connector, DIN Plug (SYS2 SV1 End)      | 025-37876-000    | 117987          | 1        |        |
|            | Terminal Pin #20-14AWG (Compressor End) | 025-20919-000    | 737624          | 2        |        |
| <b>204</b> | HARNESS SYS2 LIQUID INJE. SV            | 592-00580-219    | 821194          | 1        | 58     |
|            | Conduit, 3/8"                           | 025-31302-000    | 618155          | 6.58'    |        |
|            | Connector, 3/8"                         | 025-31309-000    | 117547          | 2        |        |
|            | Connector, DIN Plug (SYS2 SV2 End)      | 025-37876-000    | 117987          | 1        |        |
|            | Terminal Pin #20-14AWG (Compressor End) | 025-20919-000    | 737624          | 2        |        |

**NOTE:** Items with an \* are NOT represented.



**FIGURE 58 - STEP VI WIRING**

**TABLE 55 - ECO DRAIN WIRING (OPTIONAL)**

| ITEM       | DESCRIPTION                           | YORK PART NUMBER | SAP PART NUMBER | QUANTITY |
|------------|---------------------------------------|------------------|-----------------|----------|
| <b>301</b> | HARNESS SYS1 ECO DRAIN SV             | 592-00580-267    | 1049385         | 1        |
|            | Conduit, 3/8" 10 ft                   | 025-31302-000    | 618155          | 1        |
|            | Connector, 3/8"                       | 025-31309-000    | 117547          | 2        |
|            | Plug, DIN (SYS1 Liquid Injection End) | 025-37876-000    | 117987          | 1        |
|            | Terminal Pin #20-14AWG                | 025-19673-000    | 2156            | 3        |
| <b>302</b> | HARNESS SYS2 ECO DRAIN SV             | 592-00580-268    | 1049386         | 1        |
|            | Conduit, 3/8" 5.92 ft                 | 025-31302-000    | 618155          | 1        |
|            | Connector, 3/8"                       | 025-31309-000    | 117547          | 2        |
|            | Plug, DIN (SYS2 Liquid Injection End) | 025-37876-000    | 117987          | 1        |
|            | Terminal Pin #20-14AWG                | 025-19673-000    | 2156            | 3        |

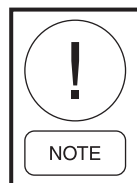
**TABLE 56 - FLOW SWITCHES**

| PIN 48= | PIN 60= | PIN 73= | PIN 31= | YORK PART NUMBER | SAP PART NUMBER | DESCRIPTION   |     |
|---------|---------|---------|---------|------------------|-----------------|---------------|-----|
| S,T     | 1       | S       | G,L     | 024-26116-100    | 899440          | Paddle Type   |     |
|         |         |         | C       | 024-26116-200    | 1042144         |               |     |
|         |         | H       | G,C,L   | 024-12144-000    | 734236          |               |     |
|         | 3       | S,H     |         | D,E              | 1,3             |               | G,H |
|         |         |         |         |                  |                 |               |     |
|         |         |         |         |                  |                 |               |     |
|         |         |         |         | 025-30919-000    | 738523          | Diff Pressure |     |
|         |         |         |         | 025-44383-001    | 740486          | Thermal Type  |     |

**NOTE:** The SAP part number is identified within the parenthesis.

**TABLE 57 - HEATPUMP JUMPER KIT (OPTIONAL)**

| ITEM     | DESCRIPTION                     | YORK PART NUMBER | SAP PART NUMBER | QUANTITY |
|----------|---------------------------------|------------------|-----------------|----------|
| -        | Kit, Heatpump Jumper Plug       | 371-06009-000    | 842616          | 1        |
| <b>1</b> | Hsg, Connr Plug Mini 12 Ckt Nat | 025-28384-000    | 737920          | 1        |
| <b>2</b> | Wire, Elec 18 Awg Red Per Aso   | 025-34017-000    | 738974          | 1        |
| <b>3</b> | Contact, Socket Mini Universal  | 025-28386-000    | 737925          | 1        |



*See PIN structure (PIN 9 & 10) for the specific compressor Driveline.*

**TABLE 58 - NOISE REDUCTION**

| PIN<br>9,10= | PIN 5,6 OR 7,8=                | PIN<br>49= | PIN<br>38= | PIN<br>50= | DESCRIPTION                          | YORK PART<br>NUMBER | SAP PART<br>NUMBER |
|--------------|--------------------------------|------------|------------|------------|--------------------------------------|---------------------|--------------------|
| FX           | BB,BC,BD,CB,CC,<br>CD,DB,DC,DD | C,D,E,S    | X          | A,E,G      | Kit, Noise Reduction, 145            | 392-06332-000       | 943708             |
|              | BB,BC,BD                       | E,S        |            |            | Kit, Noise Reduction, 145 (8' 19mm)  | 392-06332-001       | 943709             |
|              | CB,CC,CD                       |            |            |            | Kit, Noise Reduction, 145 (10' 19mm) | 392-06332-002       | 943710             |
|              | DB,DC,DD                       |            |            |            | Kit, Noise Reduction, 145 (12' 19mm) | 392-06332-003       | 943711             |
|              | BB,BC,BD                       | C,D        |            |            | Kit, Noise Reduction, 145 (8' 38mm)  | 392-06332-004       | 943712             |
|              | CB,CC,CD                       |            |            |            | Kit, Noise Reduction, 145 (10' 38mm) | 392-06332-005       | 943713             |
|              | DB,DC,DD                       |            |            |            | Kit, Noise Reduction, 145 (12' 38mm) | 392-06332-006       | 943714             |
| GX           | BB,BC,BD,CB,CC,<br>CD,DB,DC,DD | C,D,E,S    |            |            | Kit, Noise Reduction, 151            | 392-06332-100       | 943715             |
|              | BB,BC,BD                       | E,S        |            |            | Kit, Noise Reduction, 151 (8' 19mm)  | 392-06332-101       | 943716             |
|              | CB,CC,CD                       |            |            |            | Kit, Noise Reduction, 151 (10' 19mm) | 392-06332-102       | 943717             |
|              | DB,DC,DD                       |            |            |            | Kit, Noise Reduction, 151 (12' 19mm) | 392-06332-103       | 943718             |
|              | BB,BC,BD                       | C,D        |            |            | Kit, Noise Reduction, 151 (8' 38mm)  | 392-06332-104       | 943719             |
|              | CB,CC,CD                       |            |            |            | Kit, Noise Reduction, 151 (10' 38mm) | 392-06332-105       | 943720             |
|              | DB,DC,DD                       |            |            |            | Kit, Noise Reduction, 151 (12' 38mm) | 392-06332-106       | 943721             |
| FX           | BB,BC,BD,CB,CC,<br>CD,DB,DC,DD | C,D,E,S    | B          | A,E,G      | Kit, Noise Reduction, 145            | 392-06332-500       | 1163866            |
|              | BB,BC,BD                       | E,S        |            |            | Kit, Noise Reduction, 145 (8' 19mm)  | 392-06332-501       | 1163867            |
|              | CB,CC,CD                       |            |            |            | Kit, Noise Reduction, 145 (10' 19mm) | 392-06332-502       | 1163868            |
|              | DB,DC,DD                       |            |            |            | Kit, Noise Reduction, 145 (12' 19mm) | 392-06332-503       | 1163869            |
|              | BB,BC,BD                       | C,D        |            |            | Kit, Noise Reduction, 145 (8' 38mm)  | 392-06332-504       | 1163870            |
|              | CB,CC,CD                       |            |            |            | Kit, Noise Reduction, 145 (10' 38mm) | 392-06332-505       | 1164001            |
|              | DB,DC,DD                       |            |            |            | Kit, Noise Reduction, 145 (12' 38mm) | 392-06332-506       | 1164002            |
| GX           | BB,BC,BD,CB,CC,<br>CD,DB,DC,DD | C,D,E,S    |            |            | Kit, Noise Reduction, 151            | 392-06332-600       | 1164003            |
|              | BB,BC,BD                       | E,S        |            |            | Kit, Noise Reduction, 151 (8' 19mm)  | 392-06332-601       | 1164004            |
|              | CB,CC,CD                       |            |            |            | Kit, Noise Reduction, 151 (10' 19mm) | 392-06332-602       | 1164005            |
|              | DB,DC,DD                       |            |            |            | Kit, Noise Reduction, 151 (12' 19mm) | 392-06332-603       | 1164006            |
|              | BB,BC,BD                       | C,D        |            |            | Kit, Noise Reduction, 151 (8' 38mm)  | 392-06332-604       | 1164007            |
|              | CB,CC,CD                       |            |            |            | Kit, Noise Reduction, 151 (10' 38mm) | 392-06332-605       | 1164008            |
|              | DB,DC,DD                       |            |            |            | Kit, Noise Reduction, 151 (12' 38mm) | 392-06332-606       | 1164009            |
| EE           | ALL                            | E,S        | B,X        | A,G        | Kit, Noise Reduction, WTS136/136     | 392-06583-001       | 835702             |
| FE           |                                |            |            |            | Kit, Noise Reduction, WTS136/145     | 392-06583-002       | 835703             |
| FF           |                                |            |            |            | Kit, Noise Reduction, WTS145/145     | 392-06583-003       | 835704             |
| EE           |                                |            |            |            | Kit, Noise Reduction, WTS136/136     | 392-06583-004       | 835705             |
| FE           |                                |            |            |            | Kit, Noise Reduction, WTS136/145     | 392-06583-005       | 835706             |
| FF           |                                |            |            |            | Kit, Noise Reduction, WTS145/145     | 392-06583-006       | 835707             |
| EE           |                                | C,D        |            |            | Kit, Noise Reduction, WTS136/136     | 392-06583-007       | 835708             |
| FE           |                                |            |            |            | Kit, Noise Reduction, WTS136/145     | 392-06583-008       | 835709             |
| FF           |                                |            |            |            | Kit, Noise Reduction, WTS145/145     | 392-06583-009       | 835710             |
| EE           |                                |            |            |            | Kit, Noise Reduction, WTS136/136     | 392-06583-010       | 835711             |
| FE           |                                |            |            |            | Kit, Noise Reduction, WTS136/145     | 392-06583-011       | 835712             |
| FF           |                                |            |            |            | Kit, Noise Reduction, WTS145/145     | 392-06583-012       | 835713             |

**TABLE 58 (CONT'D) - NOISE REDUCTION**

| PIN<br>9,10= | PIN 5,6 OR 7,8= | PIN<br>49= | PIN<br>38= | PIN<br>50= | DESCRIPTION                      | YORK PART<br>NUMBER              | SAP PART<br>NUMBER               |                                  |               |         |
|--------------|-----------------|------------|------------|------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|---------------|---------|
| EE           | ALL             | E,S        | B          | E          | Kit, Noise Reduction, WTS136/136 | 392-06583-501                    | 1161098                          |                                  |               |         |
| FE           |                 |            |            |            | Kit, Noise Reduction, WTS136/145 | 392-06583-502                    | 1161099                          |                                  |               |         |
| FF           |                 |            |            |            | Kit, Noise Reduction, WTS145/145 | 392-06583-503                    | 1161100                          |                                  |               |         |
| EE           |                 |            |            |            | Kit, Noise Reduction, WTS136/136 | 392-06583-504                    | 1161321                          |                                  |               |         |
| FE           |                 |            |            |            | Kit, Noise Reduction, WTS136/145 | 392-06583-505                    | 1161322                          |                                  |               |         |
| FF           |                 |            |            |            | Kit, Noise Reduction, WTS145/145 | 392-06583-506                    | 1161323                          |                                  |               |         |
| EE           |                 | C,D        | B          |            | E                                | Kit, Noise Reduction, WTS136/136 | 392-06583-507                    | 1161324                          |               |         |
| FE           |                 |            |            |            |                                  | Kit, Noise Reduction, WTS136/145 | 392-06583-508                    | 1161325                          |               |         |
| FF           |                 |            |            |            |                                  | Kit, Noise Reduction, WTS145/145 | 392-06583-509                    | 1161326                          |               |         |
| EE           |                 |            |            |            |                                  | Kit, Noise Reduction, WTS136/136 | 392-06583-510                    | 1161327                          |               |         |
| FE           |                 |            |            |            |                                  | Kit, Noise Reduction, WTS136/145 | 392-06583-511                    | 1161328                          |               |         |
| FF           |                 |            |            |            |                                  | Kit, Noise Reduction, WTS145/145 | 392-06583-512                    | 1161329                          |               |         |
| EE           |                 | E,S        | X          |            |                                  | E                                | Kit, Noise Reduction, WTS136/136 | 392-06583-901                    | 1161330       |         |
| FE           |                 |            |            |            |                                  |                                  | Kit, Noise Reduction, WTS136/145 | 392-06583-902                    | 1161331       |         |
| FF           |                 |            |            |            |                                  |                                  | Kit, Noise Reduction, WTS145/145 | 392-06583-903                    | 1161332       |         |
| EE           |                 |            |            |            |                                  |                                  | Kit, Noise Reduction, WTS136/136 | 392-06583-904                    | 1161333       |         |
| FE           |                 |            |            |            |                                  |                                  | Kit, Noise Reduction, WTS136/145 | 392-06583-905                    | 1161334       |         |
| FF           |                 |            |            |            |                                  |                                  | Kit, Noise Reduction, WTS145/145 | 392-06583-906                    | 1161335       |         |
| EE           |                 | C,D        | X          |            |                                  |                                  | E                                | Kit, Noise Reduction, WTS136/136 | 392-06583-907 | 1161336 |
| FE           |                 |            |            |            |                                  |                                  |                                  | Kit, Noise Reduction, WTS136/145 | 392-06583-908 | 1161337 |
| FF           |                 |            |            |            |                                  |                                  |                                  | Kit, Noise Reduction, WTS145/145 | 392-06583-909 | 1161338 |
| EE           |                 |            |            |            |                                  |                                  |                                  | Kit, Noise Reduction, WTS136/136 | 392-06583-910 | 1161339 |
| FE           |                 |            |            |            |                                  |                                  |                                  | Kit, Noise Reduction, WTS136/145 | 392-06583-911 | 1161340 |
| FF           |                 |            |            |            |                                  |                                  |                                  | Kit, Noise Reduction, WTS145/145 | 392-06583-912 | 1161341 |
| EE           |                 | C,D,E,S    | B,X        | A,G        |                                  |                                  |                                  | Kit, Noise Reduction, WTS136/136 | 392-06584-001 | 820918  |
| FE           |                 |            |            |            |                                  |                                  |                                  | Kit, Noise Reduction, WTS136/145 | 392-06584-002 | 820919  |
| FF           |                 |            |            |            |                                  |                                  |                                  | Kit, Noise Reduction, WTS145/145 | 392-06584-003 | 820920  |
| EE           |                 |            | B          | E          |                                  |                                  |                                  | Kit, Noise Reduction, WTS136/136 | 392-06584-501 | 1161342 |
| FE           |                 |            |            |            |                                  |                                  |                                  | Kit, Noise Reduction, WTS136/145 | 392-06584-502 | 1161343 |
| FF           |                 |            |            |            |                                  |                                  |                                  | Kit, Noise Reduction, WTS145/145 | 392-06584-503 | 1161344 |
| EE           |                 |            | X          |            | Kit, Noise Reduction, WTS136/136 |                                  |                                  | 392-06584-901                    | 1161345       |         |
| FE           |                 |            |            |            | Kit, Noise Reduction, WTS136/145 |                                  |                                  | 392-06584-902                    | 1161346       |         |
| FF           |                 |            |            |            | Kit, Noise Reduction, WTS145/145 |                                  |                                  | 392-06584-903                    | 1161347       |         |

**TABLE 59 - LANGUAGE KITS**

| OBJECT DESCRIPTION               | YORK PART NUMBER | SAP    |
|----------------------------------|------------------|--------|
| Overlay, Keypad, English         | 024-34930-021    | 986630 |
| Overlay, Keypad, English IP33    | 024-34930-041    | 986859 |
| Overlay, Keypad, French          | 024-34930-022    | 986851 |
| Overlay, Keypad, French IP33     | 024-34930-042    | 986860 |
| Overlay, Keypad, Spanish         | 024-34930-023    | 986852 |
| Overlay, Keypad, Spanish IP33    | 024-34930-043    | 986861 |
| Overlay, Keypad, German          | 024-34930-024    | 986853 |
| Overlay, Keypad, German IP33     | 024-34930-044    | 986862 |
| Overlay, Keypad, Portuguese      | 024-34930-025    | 986854 |
| Overlay, Keypad, Portuguese IP33 | 024-34930-045    | 986863 |
| Overlay, Keypad, Italian         | 024-34930-026    | 986855 |
| Overlay, Keypad, Italian IP33    | 024-34930-046    | 986864 |
| Overlay, Keypad, Hungarian       | 024-34930-027    | 986856 |
| Overlay, Keypad, Hungarian IP33  | 024-34930-047    | 986865 |
| Overlay, Keypad, Polish          | 024-34930-028    | 986857 |
| Overlay, Keypad, Polish IP33     | 024-34930-048    | 986866 |
| Overlay, Keypad, Chinese         | 024-34930-029    | 986858 |

**TABLE 60 - COMPOUNDS AND ABRASIVES**

| DESCRIPTION                                       | YORK PART NUMBER | SAP NUMBER |
|---------------------------------------------------|------------------|------------|
| Compound, Heat Conductive 4oz.                    | 013-00898-000    | 616572     |
| Coolant, Propylene Glycol                         | 013-03345-000    | 729101     |
| Corrosion Inhibitor                               | 026-37706-000    | 740984     |
| Cleaner, 16oz. (Loctite #7070)                    | 013-02899-000    | 616586     |
| Blue Threadlocker, 50mL (Loctite #243)            | 013-01678-000    | 588484     |
| Red Refrigerant Sealant, 250mL (Loctite # 554)    | 013-02894-000    | 588490     |
| White Thread Sealant, 50mL (Loctite #565)         | 013-03090-000    | 729094     |
| White Thread Sealant, 250mL (Loctite #565)        | 013-02023-000    | 729048     |
| General Purpose Primer, 1.75oz. (Loctite #N7649)  | 013-01753-000    | 588485     |
| General Purpose Primer, 1 gallon (Loctite #N7649) | 013-02982-000    | 729084     |
| Sealer, Pipe Thread Compound                      | 013-03487-000    | 729128     |
| Tape, Electrical                                  | 025-40150-000    | 739762     |
| Threadlocker (Loctite #262)                       | 013-03306-000    | 729096     |
| YORK "L" Oil, 1 Quart                             | 011-00962-000    | -          |
| YORK "L" Oil, 6 1-Gallon                          | 011-00956-000    | 148553     |
| YORK "L" Oil, 5 Gallon                            | 011-00592-000    | 3821       |
| Compound, Thermal                                 | 013-02997-000    | 115564     |



*Ensure compliance with local, state and federal regulations in disposing of any Oil container or residual contents.*



*Oils may lead to dermatitis following prolonged or frequent exposure. Refer to product health safety and environmental data sheets for relevant information.*

**TABLE 61 - E-LINK**

| ITEM | DESCRIPTION                    | YORK PART NUMBER | SAP PART NUMBER | QUANTITY |
|------|--------------------------------|------------------|-----------------|----------|
| 100  | E-Link W/Serial Ports          | 025-43893-000    | 703143          | 1        |
|      | E-Link W/Serial Ports (Lon)    | 025-44384-000    | 740489          |          |
| 101  | E-Link Optiview/Latitude Panel | 025-43894-000    | 703144          | 1        |

**TABLE 62 - AUTOTRANSFORMER**

| PIN 11=    | VOLTAGE<br>(PIN 20 & 21) | DESCRIPTION          | YORK PART NUMBER | SAP PART NUMBER | QUANTITY |
|------------|--------------------------|----------------------|------------------|-----------------|----------|
| A, B, J, L | 17                       | Kit, Autotransformer | 025-45719-001    | 912329          | 1        |
| A, B, J, L | 28                       | Kit, Autotransformer | 025-45719-002    | 912330          | 1        |
| A, B, J, L | 58                       | Kit, Autotransformer | 025-45719-005    | 912511          | 1        |
| D          | 58                       | Kit, Autotransformer | 025-45719-008    | 912512          | 1        |

## NOTES

The following factors can be used to convert from English to the most common SI Metric values.

**TABLE 63 - SI METRIC CONVERSION**

| MEASUREMENT   | MULTIPLY ENGLISH UNIT         | BY FACTOR | TO OBTAIN METRIC UNIT |
|---------------|-------------------------------|-----------|-----------------------|
| Capacity      | Tons Refrigerant Effect (ton) | 3.516     | Kilowatts (kW)        |
| Power         | Horsepower                    | 0.7457    | Kilowatts (kW)        |
| Flow Rate     | Gallons / Minute (gpm)        | 0.0631    | Liters / Second (l/s) |
| Length        | Feet (ft)                     | 0.3048    | Meters (m)            |
|               | Inches (in)                   | 25.4      | Millimeters (mm)      |
| Weight        | Pounds (lbs)                  | 0.4536    | Kilograms (kg)        |
| Velocity      | Feet / Second (fps)           | 0.3048    | Meters / Second (m/s) |
| Pressure Drop | Feet of Water (ft)            | 2.989     | Kilopascals (kPa)     |
|               | Pounds / Square Inch (psi)    | 6.895     | Kilopascals (kPa)     |

## TEMPERATURE

To convert degrees Fahrenheit (°F) to degrees Celsius (°C), subtract 32° and multiply by 5/9 or 0.5556.

Example:  $(45.0^{\circ}\text{F} - 32^{\circ}) \times 0.5556 = 7.22^{\circ}\text{C}$

To convert a temperature range (i.e., a range of 10°F) from Fahrenheit to Celsius, multiply by 5/9 or 0.5556.

Example:  $10.0^{\circ}\text{F range} \times 0.5556 = 5.6^{\circ}\text{C range}$





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Form 201.30-RP1 (622)  
Issue Date: June 10, 2022  
Supersedes: 201.30-RP1 (517)

1-800-524-1330  
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