



# WATER-COOLED LIQUID CHILLERS HERMETIC SCROLL

REPLACEMENT PARTS

NEW RELEASE

Form QWC3-RP1 (417)

## MODELS QWC3050 - QWC3200 WITH BITZER COMPRESSORS 60 HZ



**R-410a**

**AHRI CERTIFIED**<sup>®</sup>  
www.ahridirectory.org

Water-Cooled Water Chilling and  
Heat Pump Water-Heating Packages  
AHRI Standards 550/590 and 551/591



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



Issue Date:  
April 20, 2017



# IMPORTANT!

## READ BEFORE PROCEEDING!

### GENERAL SAFETY GUIDELINES

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

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

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

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### SAFETY SYMBOLS

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



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



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



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



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



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

## CHANGEABILITY OF THIS DOCUMENT

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

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

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

### CHANGE BARS

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

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## HOW TO USE RENEWAL PARTS MANUALS

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

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

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

Model and Serial Number Locations:

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

Contact the following sources to order parts.

### NORTH AMERICA

#### **Baltimore Parts Center**

#### **Contrators within USA**

Telephone: (800)-932-1701

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

Telephone: (800)-482-2778

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

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

### EUROPE

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

Telephone: +44 (0) 1268 246 400

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

# NOMENCLATURE

**QWC3**

**50T**

- MODEL**
- 050T
  - 060T
  - 070T
  - 080T
  - 090T
  - 095T
  - 100T
  - 115T
  - 130T
  - 150T
  - 170T
  - 200T

**S**

**UNIT DESIGNATOR**  
H = High Efficiency  
S = Standard Efficiency

**E**

**REFRIGERANT = R-410a**

**46**

**VOLTAGE CODE:**  
17 = 200-3-60  
28 = 230-3-60  
40 = 380-3-60  
46 = 460-3-60  
58 = 575-3-60

**X**

X = ACROSS  
THE LINE

**B**

**DESIGN  
SERIES**

**B**

**DEVELOPMENT  
LEVEL**

**QWC3 = QUANTECH CHILLER WATER COOLED SCROLL**

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**TABLE 1 - FEATURES AND OPTIONS**

FEATURE	FEATURE DESCRIPTION	OPTION	OPTION DESCRIPTION
Contract	Contract Number		
ORD_QTY	Order quantity		
<b>Model</b>	<b>Model (Pin 1-4)</b>		<b>QWC3</b>
<b>QWC3_CAP</b>	<b>Capacity (Pin 5-8)</b>	050T	
		060T	
		070T	
		080T	
		090T	
		095T	
		100T	
		115T	
		130T	
		150T	
		170T	
		200T	
		<b>QWC3_Unit</b>	<b>Unit Designator (PIN 9)</b>
S	Std Efficiency Unit		
<b>QWC3_REF</b>	<b>Refrigerant (Pin 10)</b>	E	R-410A
<b>QWC3_VOLTS</b>	<b>Voltage (Pin 11 &amp;12)</b>	17	200/3/60
		28	230/3/60
		40	380/3/60
		46	460/3/60
		50	380-415/3/50
		58	575/3/60
<b>QWC3_STARTER</b>	<b>Starter (Pin 13)</b>	X	Across the Line Start
		T	Soft Start
<b>QWC3_DESIGN</b>	<b>Design Series (Pin 14)</b>	A	Design Series A
<b>QWC3_DEV</b>	<b>Development Level (Pin 15)</b>	A	Development Level A
		B	Development Level B
		C	Development Level C
<b>QWC3_POWER</b>	<b>Power Field (Pin 16 &amp; 17)</b>	XX	Standard Power Options (SP Supply Terminal Block)
		BX	SP Circuit Breaker w/ Lockable Handle
		SD	Sp Supply NF Disconnect Switch
		MB	MP Supply w/ Ind Sys CB & L Ext Handles
		QQ	Special Quote
<b>QWC3_Trans</b>	<b>Control Transfomer (Pin 18)</b>	X	No Option
		T	Control Transformer (factory)
		Q	Special Quote
<b>QWC3_PFC</b>	<b>Power Factor Capacitor (Pin 19)</b>	X	No Option
		C	Power Factor Capacitor
		Q	Special Quote
<b>QWC3_PIN20</b>	<b>Pin 20</b>	X	No Option
		Q	Special Quote

FEATURE	FEATURE DESCRIPTION	OPTION	OPTION DESCRIPTION
QWC3_BAS	Bas Interface (Pin 21)	X	No Option Required
		Q	Special Quote
		L	LON E-Link Kit (factory)
QWC3_LCD	Language (Pin 22)	X	Standard (English) LCD & Keypad Display
		F	French LCD & Keypad Display
		G	German LCD & Keypad Display
		I	Italian LCD & Keypad Display
		S	Spanish LCD & Keypad Display
		Q	Special Quote
QWC3_RDOUT	Readout Kits (Pin 23)	X	Both Discharge & Suction Pressure Transducers/ Readout (Standard)
		Q	Special Quote
QWC3_SAFETY	Safety Codes (Pin 24)	C	European Safety Code (CE)
		L	N American Safety Code (cUL/cETL)
		Q	Special Quote
QWC3_HPUMP	Heat Pump (Pin 25)	X	No Option
		H	Heat Pump
		Q	Special Quote
QWC3_CTEMP	Condenser Water Temp (Pin 26 & 27)		
QWC3_PIN 28	Pin 28	X	No Sequence Kit
		Q	Special Quote
QWC3_TEMP	Evaporator Water Temp (Pin 29 & 30)		
QWC3_CHICAGO	Chicago Code Kit (Pin 31)	X	No Option
		B	Both Service Isolation Valves (Suction) and Chicago Code Relief
		C	Chicago Relief Code
		F	Both Suction Isolation Valves and Pressure Relief Service Kit
		G	Both Suction Isolation Valves and Dual Relief Valves
		P	Pressure Relief Service Kit
		R	Dual Relief Valves
		S	Service Isolation Valves (Suction)
		Q	Special Quote
QWC3_VALVES	Valves (Pin 32)	X	Solenoid Valves (Liquid Line)
		E	Electronic Expansion Valve
		Q	Special Quote
QWC3_HGBP	Hot Gas By-Pass (Pin 33)	X	No Option
		1	Hot Gas By-Pass (1 circuit)
		Q	Special Quote
QWC3_PIN 34	Pin 34	X	No Option
		Q	Special Quote
QWC3_OVERLOAD	Compressor Overloads (Pin 35)	X	No Option
		E	Compressor External Overloads
		Q	Special Quote

FEATURE	FEATURE DESCRIPTION	OPTION	OPTION DESCRIPTION
QWC3_PRESSURE	Pressure Control (Pin 36)	X	No Option
		Q	Special Quote
QWC3_PIN 37	Pin 37	X	No Option
		Q	Special Quote
QWC3_DWP	DWP (Pin 38)	X	150psig DWP Waterside
		Q	Special Quote
QWC3_INS	Insulation (Pin 39)	X	Single Thick Insulation
		D	Double Thick Insulation
		Q	Special Quote
QWC3_FLANGES	Flanges (Pin 40)	X	No Flange Kit
		V	Victaulic Flange Kit
		Q	Special Quote
QWC3_EVAPFLOW	Evap FLOW Switch (Pin 41)	X	No Flow Switch
		D	One Differential Pressure Switch/Chiller
		E	Two Differential Pressure Switch/Chiller
		F	Three Differential Pressure Switch/Chiller
		S	One Flow Switch/Chiller
		T	Two Flow Switch/Chiller
		U	Three Flow Switch/Chiller
		Q	Special Quote
QWC3_VESSEL	Vessel Codes (Pin 42)	A	ASME Pressure Vessel & Associated Codes
		E	European "CE" Pressure Vessel Directive
		Q	Special Quote
QWC3_PIN 43	Pin 43	X	No Option
		Q	Special Quote
QWC3_PIN 44	Pin 44	X	No Option
		Q	Special Quote
QWC3_PIN 45	Pin 45	X	Copper Tubes
		Q	Special Quote
QWC3_HEAT	Heat Recovery (Pin 46)	X	No Option
		Q	Special Quote
QWC3_CONDFLOW	Condenser Flow Switch (Pin 47)	X	No Option
		Q	Special Quote
QWC3_PIN 48	Pin 48	X	No Option
		Q	Special Quote
QWC3_ACOUSTIC	Acoustical Arrgt. (Pin 49)	X	No Acoustic Enclosure
		B	Compressor Sound Blanket
		Q	Special Quote
QWC3_SRDOCS	SR Documents (Pin 50)	X	No Documents Required
		A	Base, Material & Witness Documents
		B	Base Document
		M	Base & Material Documents
		W	Base & Witness Documents
		Q	Special Quote

FEATURE	FEATURE DESCRIPTION	OPTION	OPTION DESCRIPTION
QWC3_FORM	Shipment Form (Pin 51)	X	Form 1 Shipment (Complete unit with full charge)
		Q	Special Quote
QWC3_PIN 52	Pin 52	X	No Option
		Q	Special Quote
QWC3_PAINT	Overspray Paint (Pin 53)	X	No Final Overspray Paint
		S	Final Overspray Paint
		Q	Special Quote
QWC3_ISOL	Isolators (Pin 54)	X	No Isolators
		1	1" Deflection
		N	Neoprene
		S	Seismic
		Q	Special Quote
Pin 55	Pin 55		Marketing Purposes Only!
PIN 56	Pin 56		Marketing Purposes Only!
YCWL_SHIP	Ship Instructions (Pin 57)	X	No Containerization Required with Shipping Bag
		A	Buy America Act Compliance with Shipping Bag
		B	Both Buy America Act Compliance & Container Shipped without Shipping Bag (Factory Prep)
		C	Container Shipped without Shipping Bag (Factory Load for US Port)
		D	Container Shipped with Shipping Bag (Factory Load US Port)
		E	Container Shipped with Shipping Bag (Factory Load Mexico Port)
		F	Container Shipped with Shipping Bag (Factory Prep)
		G	Both Buy America Act Compliance and Container Shipped with Shipping Bag (Factory Prep)
		M	Container Shipped Without Shipping Bag (Factory Load for Mexico Port)
		N	No Containerization Required without Shipping Bag
		P	Container Shipped without Shipping Bag (Factory Prep)
		U	Buy America Act Compliance without Shipping Bag
		Q	Special Quote
PIN 58	Pin 58		Marketing Purposes Only!
YCWL_PIN 59	Pin 59	X	No Option
		Q	Special Quote
YCWL_PIN 60	Pin 60	X	No Option
		Q	Special Quote
YCWL_MFG	Plant of Mfg (Pin 61)	R	Plant Of Manufacture - Monterrey
LOC	Mfg Location	CUR	Curitiba, Brazil
		MTY	Monterrey, BE
		SAT	San Antonio, Texas
YW_CV	YorkWorks config version		
YW_UV	YorkWorks upload version		
SQ	Speical Quote	Q	Special Quote

## EVAPORATOR COMPONENTS

**TABLE 2 - EVAPORATOR COMPONENTS PIN 9 = 'S'**

ITEM	DESCRIPTION	MODELS 050T, 0060T, 0070T & 0080T	MODEL 090T	MODELS 100T & 115T	FIGURE
1	Evaporator, Fully Insulated with Heater	375-71198-001	375-65740-001	375-71452-001	1
	Evaporator, Less Heater & Insulation	375-71199-000	375-67292-000	375-71453-000	1
2	Head, Connection End	375-71203-000	375-67289-000	375-71454-000	1
3	Head, Back End	075-71205-000	075-65741-003	075-71457-000	1
4	Baffle, Connection End	375-71206-000	375-67287-000	375-71458-000	1
5	Baffle, Back End	375-71208-000	375-67288-000	375-71460-000	1
6	Gasket, Baffle and Head	075-71210-000	075-65741-004	075-71467-000	1
7	Insulation (3/4"x49"x65")	010-05997-000	010-05997-000	010-05997-000	1
	Insulation (1 1/2"x49"x65")	010-05998-000	010-05998-000	010-05998-000	1
8	Adhesive (Use with #6)	013-03311-000			*
9	Sensor, Water Temp (EWT)	025-40273-010			1
	Sensor, Water Temp (LWT)	025-40273-009			1
10	Well, Thermo	026-32328-000	026-32328-000	026-32328-000	1

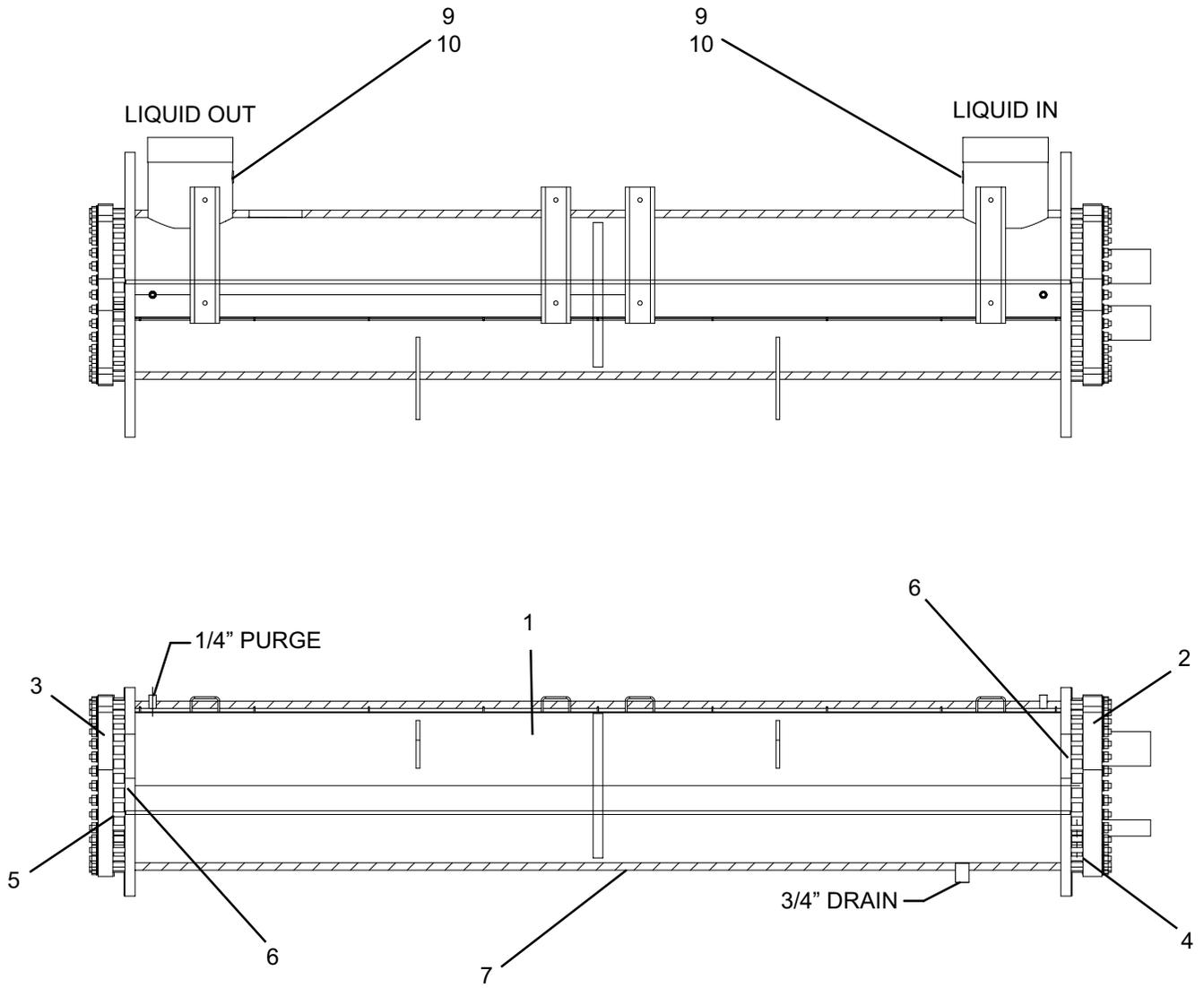
ITEM	DESCRIPTION	MODEL 130T	MODEL 150T	MODELS 170T & 200T	FIGURE
1	Evaporator, Fully Insulated with Heater	375-67622-001	375-71827-001	375-67895-001	1
	Evaporator, Less Heater & Insulation	375-67623-000	375-71828-000	375-67896-000	1
2	Head, Connection End	375-67628-000	375-72131-000	375-67887-000	1
3	Head, Back End	075-67624-002	075-72132-001	075-67892-002	1
4	Baffle, Connection End	375-67626-000	375-71834-000	375-67888-000	1
5	Baffle, Back End	375-67627-000	375-72130-000	375-67891-000	1
6	Gasket, Baffle and Head	075-67624-003	075-72133-000	075-67892-003	1
7	Insulation (3/4"x49"x65")	010-05997-000	010-05997-000	010-05997-000	1
	Insulation (1 1/2"x49"x65")	010-05998-000	010-05998-000	010-05998-000	1
8	Adhesive (Use with #6)	013-03311-000			*
9	Sensor, Water Temp (EWT)	025-40273-010			1
	Sensor, Water Temp (LWT)	025-40273-009			1
10	Well, Thermo	026-32328-000	026-32328-000	026-32328-000	1

\*Item not shown

**TABLE 3 - EVAPORATOR COMPONENTS - PIN 9 = 'H'**

ITEM	DESCRIPTION	MODEL 060T	MODELS 070T, 080T, 090T & 115T	MODEL 095T	MODELS 130T & 150T	FIGURE
1	Evaporator, Fully Insulated with Heater	375-65740-001	375-67622-001	375-71827-001	375-67895-001	1
	Evaporator, Less Heater & Insulation	375-67292-000	375-67623-000	375-71828-000	375-67896-000	1
2	Head, Connection End	375-67289-000	375-67628-000	375-72131-000	375-67887-000	1
3	Head, Back End	075-65741-003	075-67624-002	075-72132-001	075-67892-002	1
4	Baffle, Connection End	375-67287-000	375-67626-000	375-71834-000	375-67888-000	1
5	Baffle, Back End	375-67288-000	375-67627-000	375-72130-000	375-67891-000	1
6	Gasket, Baffle and Head	075-65741-004	075-67624-003	075-72133-000	075-67892-003	1
7	Insulation (3/4"x49"x65")	010-05997-000	010-05997-000	010-05997-000	010-05997-000	1
	Insulation (1 1/2"x49"x65")	010-05998-000	010-05998-000	010-05998-000	010-05998-000	1
8	Adhesive (Use with #6)	013-03311-000				*
9	Sensor, Water Temp (EWT)	025-40273-010				1
	Sensor, Water Temp (LWT)	025-40273-009				1
10	Well, Thermo	026-32328-000	026-32328-000		026-32328-000	1

\*Item Not Shown



67622-000

**Service Note:**

Pin location 38 in Model Number will be "X" for 150# DWP Cooler.  
 Pin location 38 in Model Number will be "3" for 300# DWP Cooler.

**Service Note:**

Standard 150# DWP Cooler Flow Switch - 024-26116-000  
 Optional 300# DWP Cooler Flow Switch - 024-12144-000  
 Differential Pressure Switch - 025-30919-000

**FIGURE 1 - EVAPORATOR COMPONENTS**

## CONDENSER COMPONENTS

**TABLE 4 - CONDENSER COMPONENTS - PIN 9 = 'S'**

ITEM	DESCRIPTION	MODELS 050T, 060T, 0070T	MODELS 080T, 090T, 100T, 115T	MODEL 130T
1	Condenser (Includes Items 2 Thru 6)	375-74452-000	375-65735-000	375-67635-000
2	Head, Condenser - Front	375-74455-000	375-65738-000	375-70378-000
3	Head, Condenser - Rear	375-74456-000	375-65739-000	375-70379-000
4	Tube, Copper (# Of Tubes Per Condenser)	007-10130-000 (108)	007-10130-000 (169)	007-10130-000 (216)
5*	Gasket, Channel (# Of Feet Needed)	028-09951-001 (7 ft.)	028-09951-001 (7.5 ft.)	028-09951-001 (8.25 ft.)
	Gasket, Flat Type	075-83178-000	075-83179-000	075-83177-000
6	Adhesive (Used With Item 5)	013-03311-000	013-03311-000	013-03311-000

ITEM	DESCRIPTION	MODEL 150T	MODELS 170T & 200T
1	Condenser (Includes Items 2 Thru 6)	375-71813-000	375-67902-000
2	Head, Condenser - Front	375-67900-000	375-67900-000
3	Head, Condenser - Rear	375-67899-000	375-67899-000
4	Tube, Copper (# Of Tubes Per Condenser)	007-10140-000 (271)	007-10140-000 (311)
5*	Gasket, Channel (# Of Feet Needed)	028-09951-001 (9.5 ft.)	028-09951-001 (9.5 ft.)
	Gasket, Flat Type	075-83176-000	075-83176-000
6	Adhesive (Used With Item 5)	013-03311-000	013-03311-000

See Figure 2 on page 14 .

**TABLE 5 - CONDENSER COMPONENTS - PIN 9 = 'H'**

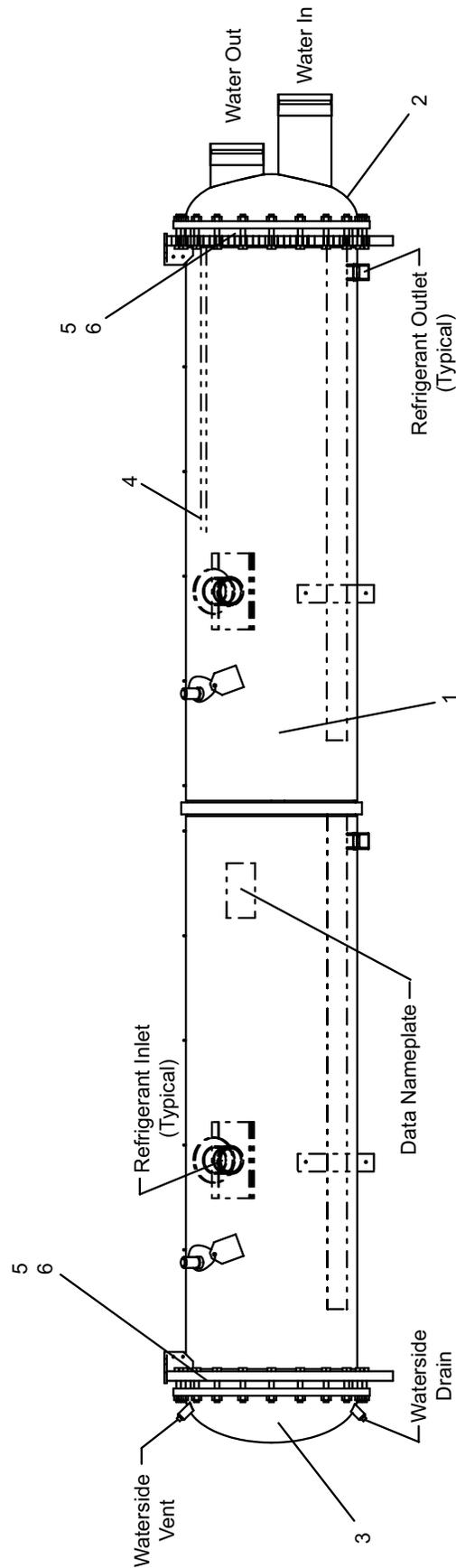
ITEM	DESCRIPTION	MODELS 060T, 070T, 080T	MODELS 090T, 115T	MODELS 095T, 130T	MODEL 150T
1	Condenser (Includes Items 2 Thru 6)	375-65735-000	375-71811-000	375-71813-000	375-67902-000
2	Head, Condenser - Front	375-65738-000	375-67900-000	375-67900-000	375-67900-000
3	Head, Condenser - Rear	375-65739-000	375-67899-000	375-67899-000	375-67899-000
4	Tube, Copper (# Of Tubes Per Condenser)	007-10130-000 (169)	007-10130-000 (271)	007-10140-000 (271)	007-10140-000 (311)
5*	Gasket, Channel (# Of Feet Needed)	028-09951-001 (7.5 ft.)	028-09951-001 (9.5 ft.)	028-09951-001 (9.5 ft.)	028-09951-001 (9.5 ft.)
	Gasket, Flat Type	075-83179-000	075-83176-000	075-83176-000	075-83176-000
6	Adhesive (Used With Item 5)	013-03311-000	013-03311-000	013-03311-000	013-03311-000

See Figure 2 on page 14 .

**\*Service Note**

Channel Gaskets are used on units built before 06/23/2008.

Flat Type Gaskets are used on units built after 06/23/2008.



67902-000

**FIGURE 2 - CONDENSER COMPONENTS**

## REFRIGERANT PIPING COMPONENTS

### CHILLER MODEL QWC3

**TABLE 6 - REFRIGERANT PIPING COMPONENTS - PIN 9 = 'S'**

ITEM	SYS.	DESCRIPTION	050T 392-22428-010	060T 375-71631-XXX	070T 375-71633-XXX	080T 375-71611-XXX	090T 375-71618-XXX	
1 <sup>s</sup>	1	Valve, Thermal Expansion	025-40900-006	025-40900-007	025-40900-008	025-40900-008	025-40900-008	
	2		025-40900-006	025-40900-007	025-40900-007	025-40900-008	025-40900-008	
2	Both	Dehydrator, Body (Replaceable Core)	026-43984-002	026-43984-002	026-43984-002	026-43984-002	026-43984-002	
3 <sup>s</sup>	Both	Core, Dehydrator	026-37540-000	026-37540-000	026-37540-000	026-37540-000	026-37540-000	
4	1	Valve, Liquid Line Solenoid*	025-41841-000	025-41841-000	025-41841-000	025-41841-000	025-41743-000	
	2		025-41841-000	025-41841-000	025-41841-000	025-41841-000	025-41841-000	
5	1	Moisture Indicator	026-12992-000	026-12992-000	026-14125-000	026-14125-000	026-14125-000	
	2		026-12992-000	026-12992-000	026-12992-000	026-14125-000	026-14125-000	
7	1	Ball Valve, Discharge	022-09752-000	022-09752-000	022-09752-000	022-09752-000	022-09752-000	
	2		022-09752-000	022-09752-000	022-09752-000	022-09752-000	022-09752-000	
8	Both	Valve, Transducer	022-11735-000	022-11735-000	022-11735-000	022-11735-000	022-11735-000	
9	Both	Compressor	See Pages 29, 30, 31 & 32					
10	Both	Valve, Charging	022-09754-000	022-09754-000	022-09754-000	022-09754-000	022-09754-000	
11	1	Valve, Liquid Line Service	022-02992-000	022-02992-000	022-10022-000	022-10022-000	022-10022-000	
	2		022-02992-000	022-02992-000	022-02992-000	022-10022-000	022-10022-000	
12	Both	Valve, Suction Relief (400 PSIG)	022-11704-000	022-11704-000	022-11704-000	022-11704-000	022-11704-000	
13	1	Ball Valve, Suction	022-09752-000	022-09752-000	022-09753-000	022-09753-000	022-09753-000	
	2		022-09752-000	022-09752-000	022-09752-000	022-09753-000	022-09753-000	
14	Both	Valve, Discharge Relief (560 PSIG)	022-11714-000	022-11714-000	022-11714-000	022-11714-000	022-11714-000	

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

See Figures 3, 4, 5, 6 and 7, starting 19

**\*Service Note:**

Solenoid coil only (with DIN connector) replacement part number is 025-35151-000. Use only with Sporlan liquid line solenoids.

**TABLE 6 – REFRIGERANT PIPING COMPONENTS - PIN 9 = 'S' (CONT'D)**

ITEM	SYS.	DESCRIPTION	100T 375-74585-XXX	115T 392-03748-XXX	130T 392-03759-XXX	150T 392-03754-XXX	170T 375-84154-XXX	200T 375-84152-XXX
1 <sup>S</sup>	1	Valve, Thermal	025-40900-008	025-40900-004	025-40900-004	025-40900-004	025-42426-100	025-42426-100
	2	Expansion	025-40900-008	025-40900-008	025-40900-004	025-40900-004	025-42426-100	025-42426-100
2	1	Dehydrator, Body	026-43984-002	026-43984-006	026-43984-006	026-43984-004	026-43984-005	026-43984-005
	2	(Replaceable Core)	026-43984-002	026-43984-002	026-43984-006	026-43984-004	026-43984-005	026-43984-005
3 <sup>S</sup>	Both	Core, Dehydrator	026-37540-000	026-37540-000	026-37540-000	026-37540-000	026-37540-000	026-37540-000
4	1	Valve, Liquid	025-41743-000	025-41743-000	025-41743-000	025-41743-000	025-41840-000	025-41840-000
	2	Line Solenoid*	025-41743-000	025-41743-000	025-41743-000	025-41743-000	025-41840-000	025-41840-000
5	1	Moisture	026-14125-000	026-14125-000	026-14125-000	026-14125-000	026-20574-000	026-20574-000
	2	Indicator	026-14125-000	026-14125-000	026-14125-000	026-14125-000	026-20574-000	026-20574-000
7	1	Ball Valve,	022-09752-000	022-09752-000	022-09752-000	022-09753-000	022-09753-000	022-09753-000
	2	Discharge	022-09752-000	022-09752-000	022-09752-000	022-09753-000	022-09753-000	022-09753-000
8	Both	Valve, Transducer	022-11735-000	022-11735-000	022-11735-000	022-11735-000	022-11735-000	022-11735-000
9	Both	Compressor	See Pages 29, 30, 31 & 32					
10	Both	Valve, Charging	022-09754-000	022-09754-000	022-09754-000	022-09754-000	022-09754-000	022-09754-000
11	1	Valve, Liquid	022-10022-000	022-10022-000	022-10022-000	022-10022-000	022-09778-000	022-09778-000
	2	Line Service	022-10022-000	022-10022-000	022-10022-000	022-10022-000	022-09778-000	022-09778-000
12	Both	Valve, Relief (400 PSIG)	022-11704-000	022-11704-000	022-11704-000	022-11704-000	022-11704-000	022-11704-000
13	1	Ball Valve,	022-09753-000	022-09753-000	022-09753-000	022-09753-000	022-09753-000	022-09753-000
	2	Suction	022-09753-000	022-09753-000	022-09753-000	022-09753-000	022-09753-000	022-09753-000
14	Both	Valve, Discharge Relief (560 PSIG)	022-11714-000	022-11714-000	022-11714-000	022-11714-000	022-11714-000	022-11714-000

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

See Figures 3, 4, 5, 6 and 7, starting 19

**\*Service Note:**

Solenoid coil only (with DIN connector) replacement part number is 025-35151-000. Use only with Sporlan liquid line solenoids.

**TABLE 7 - REFRIGERANT PIPING COMPONENTS - PIN 9 = 'H'**

ITEM	SYS.	DESCRIPTION	060T	070T	080T	090T	095T	115T
			392-22429-XXX	392-22430-XXX	392-22431-XXX	392-22432-XXX	392-22433-XXX	392-03750-XXX
1 <sup>s</sup>	1	Valve, Thermal Expansion	025-40900-007	025-40900-007	025-40900-008	025-40900-008	025-40900-008	025-40900-008
	2		025-40900-007	025-40900-008	025-40900-008	025-40900-008	025-40900-008	025-40900-008
2	1	Dehydrator, Body (Replaceable Core)	026-43984-002	026-43984-002	026-43984-002	026-43984-002	026-43984-001	026-43984-006
	2		026-43984-002	026-43984-002	026-43984-002	026-43984-002	026-43984-001	026-43984-006
3 <sup>s</sup>	Both	Core, Dehydrator	026-37540-000	026-37540-000	026-37540-000	026-37540-000	026-37540-000	026-37540-000
4	1	Valve, Liquid Line Solenoid*	025-41841-000	025-41841-000	025-41841-000	025-41743-000	025-41841-000	025-41743-000
	2		025-41841-000	025-41841-000	025-41841-000	025-41743-000	025-41841-000	025-41743-000
5	1	Moisture Indicator	026-12992-000	026-14125-000	026-14125-000	026-14125-000	026-14125-000	026-14125-000
	2		026-12992-000	026-14125-000	026-14125-000	026-14125-000	026-14125-000	026-14125-000
7	1	Ball Valve, Discharge	022-09752-000	022-09752-000	022-09752-000	022-09752-000	022-09752-000	022-09752-000
	2		022-09752-000	022-09752-000	022-09752-000	022-09752-000	022-09752-000	022-09752-000
8	Both	Valve, Transducer	022-11735-000	022-11735-000	022-11735-000	022-11735-000	022-11753-000	022-11735-000
9	Both	Compressor	See Pages 29, 30, 31 & 32					
10	Both	Valve, Charging	022-09754-000	022-09754-000	022-09754-000	022-09754-000	022-09754-000	022-09754-000
11	1	Valve, Liquid Line Service	022-02992-000	022-02992-000	022-10022-000	022-10022-000	022-10022-000	022-10022-000
	2		022-02992-000	022-02992-000	022-10022-000	022-10022-000	022-10022-000	022-10022-000
12	Both	Valve, Suction Relief (400 PSIG)	022-11704-000	022-11704-000	022-11704-000	022-11704-000	022-11704-000	022-11704-000
13	1	Ball Valve, Suction	022-09752-000	022-09752-000	022-09752-000	022-09752-000	022-09752-000	022-09752-000
	2		022-09752-000	022-09752-000	022-09752-000	022-09752-000	022-09752-000	022-09752-000
14	Both	Valve, Discharge Relief (560 PSIG)	022-11714-000	022-11714-000	022-11714-000	022-11714-000	022-11714-000	022-11714-000

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

See Figures 3, 4, 5, 6 and 7, starting 19

**\*Service Note:**

Solenoid coil only (with DIN connector) replacement part number is 025-35151-000. Use only with Sporlan liquid line solenoids.

**TABLE 7 – REFRIGERANT PIPING COMPONENTS - PIN 9 = 'H' (CONT'D)**

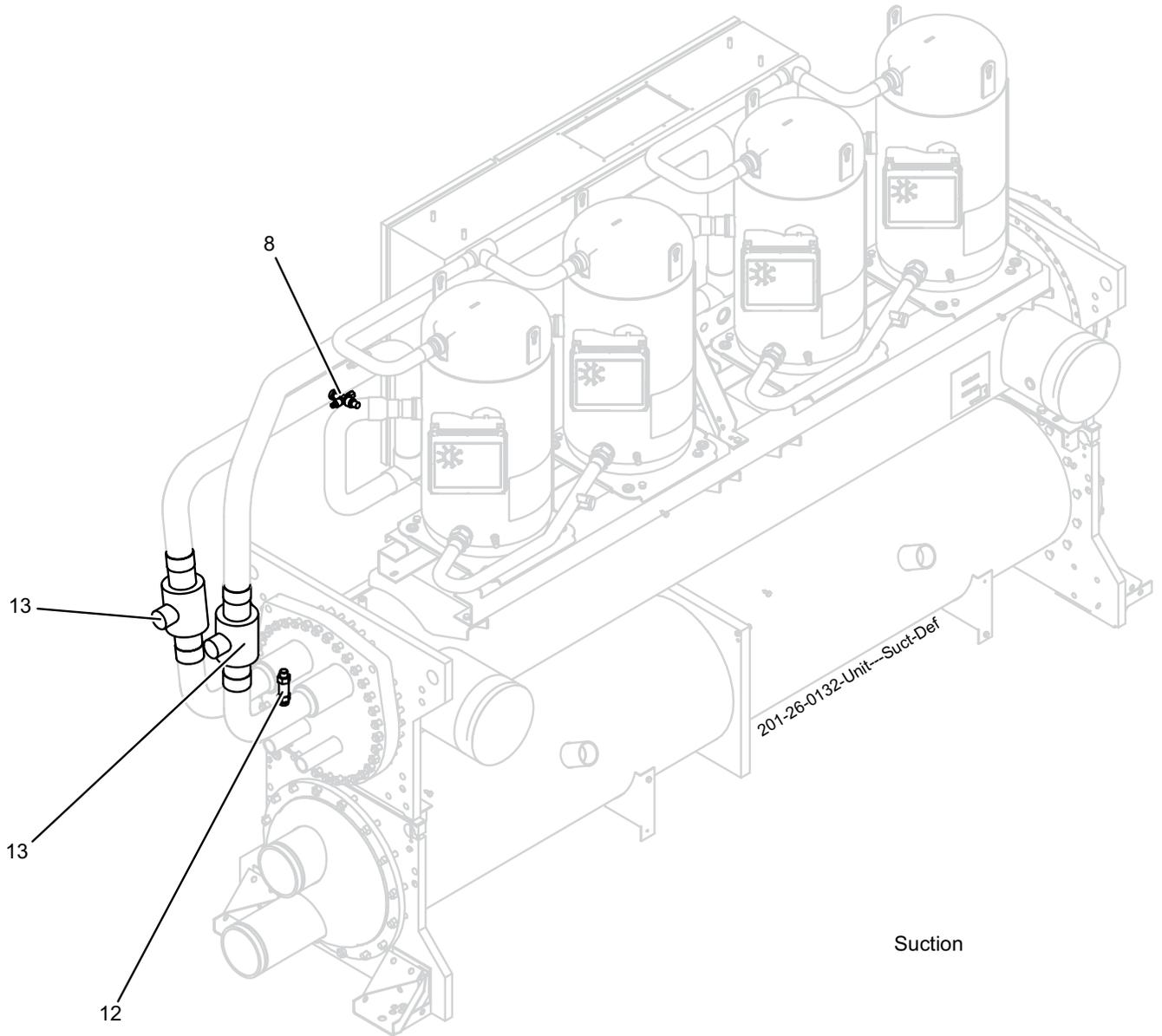
ITEM	SYS.	DESCRIPTION	130T 392-03752-XXX	150T 392-03752-XXX
1 <sup>S</sup>	1	Valve, Thermal Expansion	025-40900-004	025-40900-004
	2		025-40900-004	025-40900-004
2	Both	Dehydrator, Body (Replaceable Core)	026-43984-003	026-43984-004
3 <sup>S</sup>	Both	Core, Dehydrator	026-37540-000	026-37540-000
4	1	Valve, Liquid Line Solenoid*	025-41743-000	025-41743-000
	2		025-41743-000	025-41743-000
5	1	Moisture Indicator	026-14125-000	026-14125-000
	2		026-14125-000	026-14125-000
7	1	Ball Valve, Discharge	022-09753-000	022-09753-000
	2		022-09753-000	022-09753-000
8	Both	Valve, Transducer	022-11735-000	022-11735-000
9	Both	Compressor	See Pages 27, 28 and 29	
10	Both	Valve, Charging	022-09754-000	022-09754-000
11	1	Valve, Liquid Line Service	022-10022-000	022-10022-000
	2		022-10022-000	022-10022-000
12	Both	Valve, Suction Relief (400 PSIG)	022-11704-000	022-11704-000
13	1	Ball Valve, Suction	022-09753-000	022-09753-000
	2		022-09753-000	022-09753-000
14	Both	Valve, Discharge Relief (560 PSIG)	022-11714-000	022-11714-000

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

See Figures 3, 4, 5, 6 and 7, starting 19

**\*Service Note:**

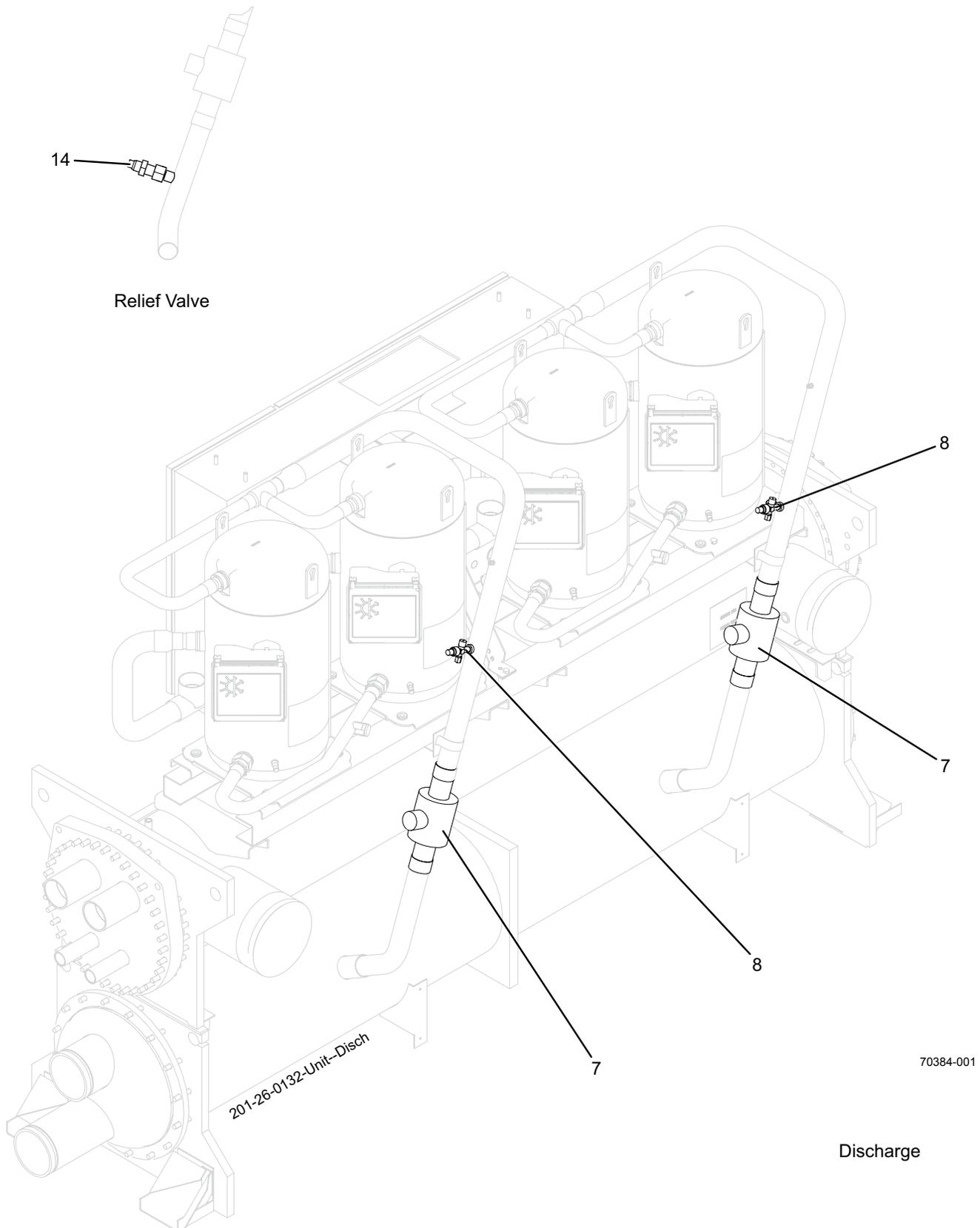
Solenoid coil only (with DIN connector) replacement part number is 025-35151-000. Use only with Sporlan liquid line solenoids.



70384-002

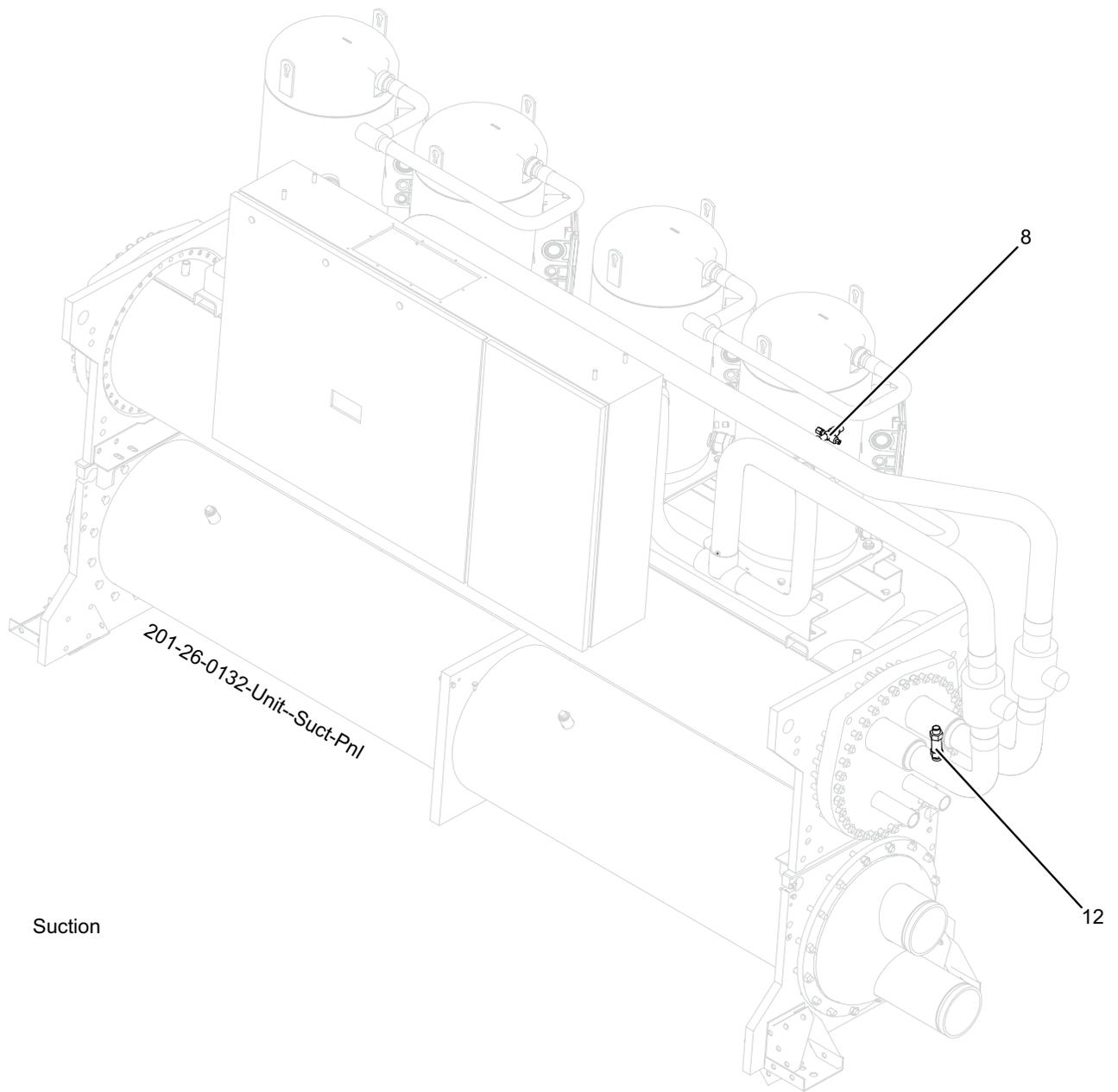
Reference Tables 5 and 6 starting on page 15

**FIGURE 3 - SUCTION PIPING COMPONENTS - 4 COMPRESSOR MODEL SHOWN**



Reference Tables 5 and 6 starting on page 15

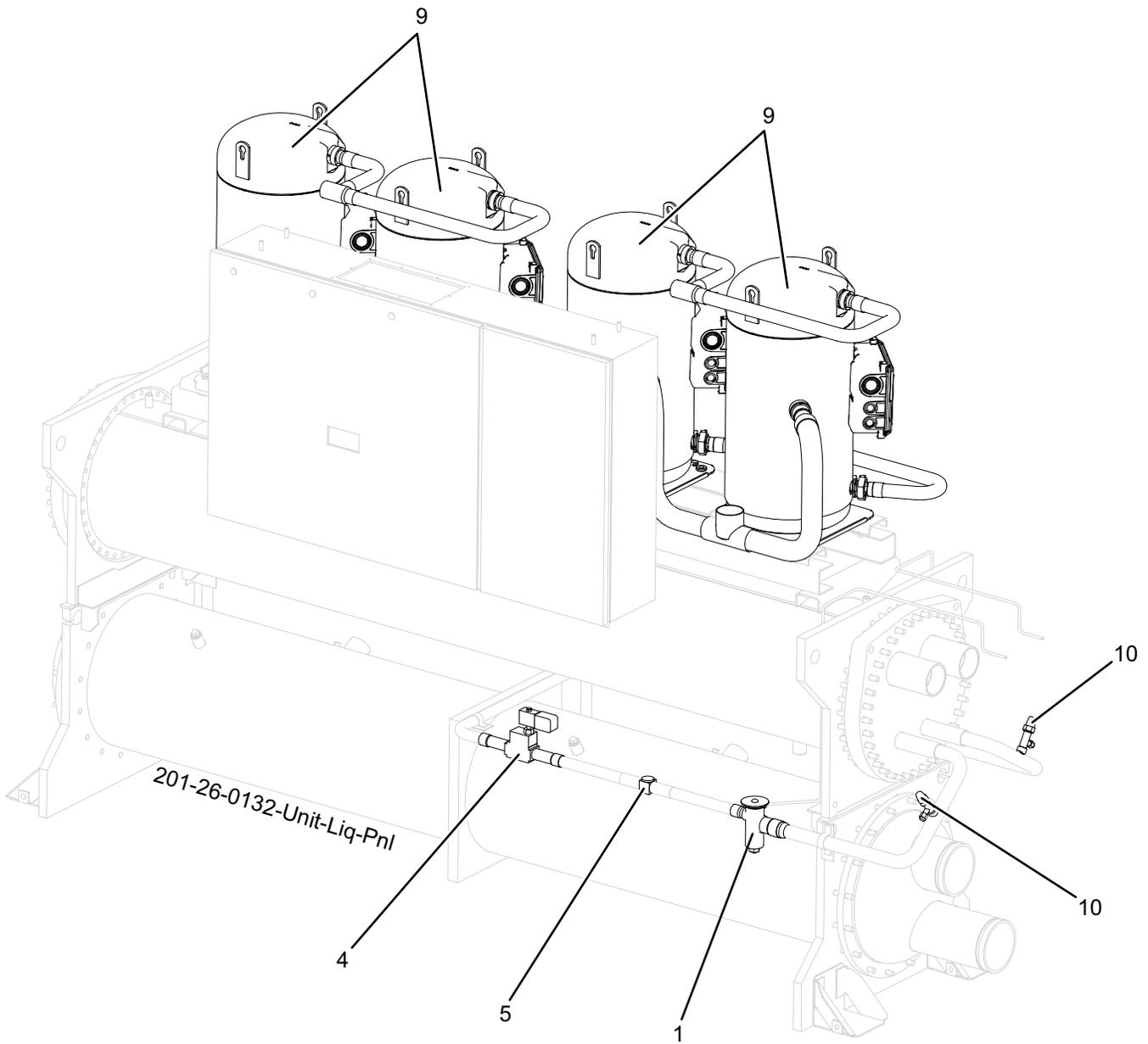
**FIGURE 4 - DISCHARGE PIPING COMPONENTS - 4 COMPRESSOR MODEL SHOWN**



70384-002B

Reference Tables 5 and 6 starting on page 15

**FIGURE 5 - SUCTION PIPING COMPONENTS - 4 COMPRESSOR MODEL SHOWN**

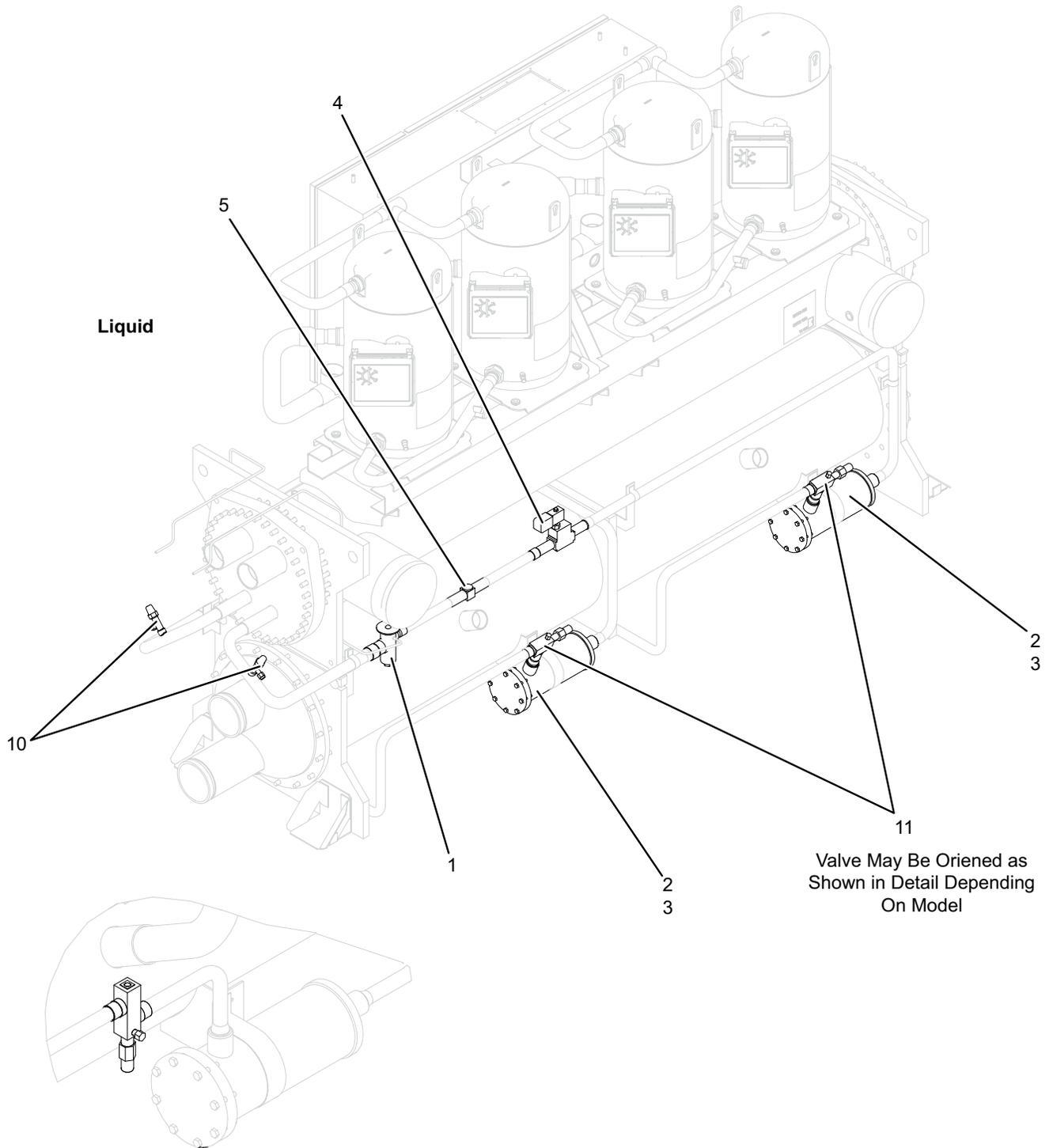


Liquid

70384-003

Reference Tables 5 and 6 starting on page 15

**FIGURE 6 - LIQUID PIPING COMPONENTS - 4 COMPRESSOR MODEL SHOWN**



Item 11 may be oriented as shown, for some units

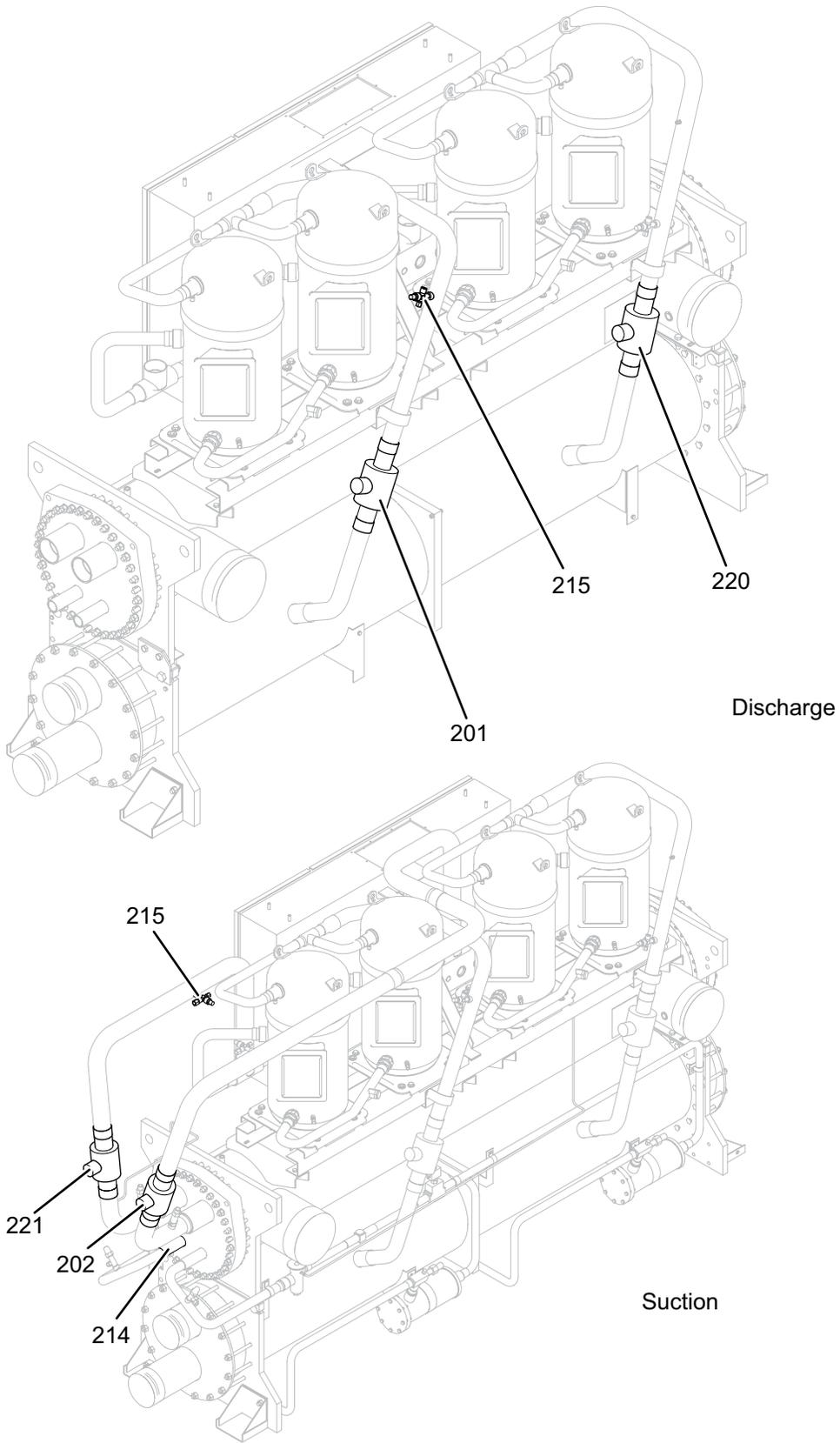
**FIGURE 7 - LIQUID PIPING COMPONENTS - 4 COMPRESSOR MODEL SHOWN EH**

**TABLE 8 - SYSTEM PIPING MODELS 050T, 060T, 070T, 080T, 090T, 100T, 115T, 130T, AND 150T**

ITEM	PIN 31 =	MODELS	DESCRIPTION	PART NUMBER	SAP	FIGURE
201	X, B	050T, 060T, 070T, 080T, 090T, 100T, 115T, 130T	Valve, Ball 2-1/8 Ods Conn	022-09752-000	731278	8
		150T	Valve Shut Off Ball Valve	022-09753-000	378432	
202	B	050T, 060T	Valve, Ball 2-1/8 Ods Conn	022-09752-000	731278	8
		070T, 080T, 090T, 100T, 115T, 130T, 150T	Valve Shut Off Ball Valve	022-09753-000	378432	
204	X, B	050T, 060T, 070T, 080T, 090T, 100T, 115T, 130T, 150T	Valve, Charging Brass	022-09754-000	391983	9
205	X, B	050T, 060T	Valve Txv, Tgel 40-35	025-40900-006	739944	9
			Valve Expan. Elect Danfos (Pin 32 = E)	025-44670-050	740579	
	X, B	070T	Valve Txv, Tgel 40-46	025-40900-007	739945	
			Valve Expan. Elect Danfos (Pin 32 = E)	025-44670-050	740579	
	X, B	080T, 090T, 100T, 115T	Valve Txv, Tre 80-80 L	025-40900-008	739946	
			Valve Expan. Elect Danfos (Pin 32 = E)	025-44670-100	740580	
	X, B	130T, 150T	Valve Txv, Tre 80-100 L	025-40900-004	739942	
			Valve Expan. Elect Danfos (Pin 32 = E)	025-44670-100	740580	
206	X, B	050T, 060T, 070T	Indr Moist Liq 7/8 Odf	026-12992-000	439702	9
		080T, 090T, 100T, 115T, 130T, 150T	Indr Moist Liq 1-1/8 Odf	026-14125-000	391921	
207	X, B	050T, 060T, 070T, 080T, 090T	Valve Solenoid 1-1/8 Odf	025-41841-000	536202	9
		100T, 115T, 130T, 150T	Valve, Solenoid 1-1/8 " Odf	025-41743-000	740010	
208	X, B	050T, 060T, 070T, 080T, 090T, 100T	Filter Drier Core 2 C-969	026-43984-002	415229	9, 10
	X, B	115T	Filter Drier Core 2 C-969 (Pin 9 = S)	026-43984-002	415229	
			Filter Drier Core 2 C-9611 (Pin 9 = H)	026-43984-006	516658	
	X, B	130T	Filter Drier Core 2 C-9611	026-43984-006	516658	
	X, B	150T	Filter Drier Core 4 C-19211	026-43984-004	741133	
209	X, B	050T, 060T, 070T, 080T, 090T, 100T, 115T, 130T, 150T	Ctg Dehy 100 Percent Molecular	026-37540-000	740964	9, 10
210	X, B	050T, 060T, 070T	Valve Liq Line Svc 7/8 Ods	022-02992-000	533388	9, 10
		080T, 090T, 100T, 115T, 130T, 150T	Valve	022-10022-000	62512	
214	X, B	050T, 060T, 070T, 080T, 090T, 100T, 115T, 130T, 150T	Valve Rel.3/8Mptx1/2Fl 400Psig	022-11704-000	731425	8
215	X, B	050T, 060T, 070T, 080T, 090T, 100T, 115T, 130T, 150T	Valve, Transducer 1/2 Solder X	022-11735-000	430728	8
219	X, B	050T, 060T, 070T, 080T	Valve Solenoid 1-1/8 Odf	025-41841-000	536202	9, 10
		090T, 100T, 115T, 130T, 150T	Valve, Solenoid 1-1/8 " Odf	025-41743-000	740010	

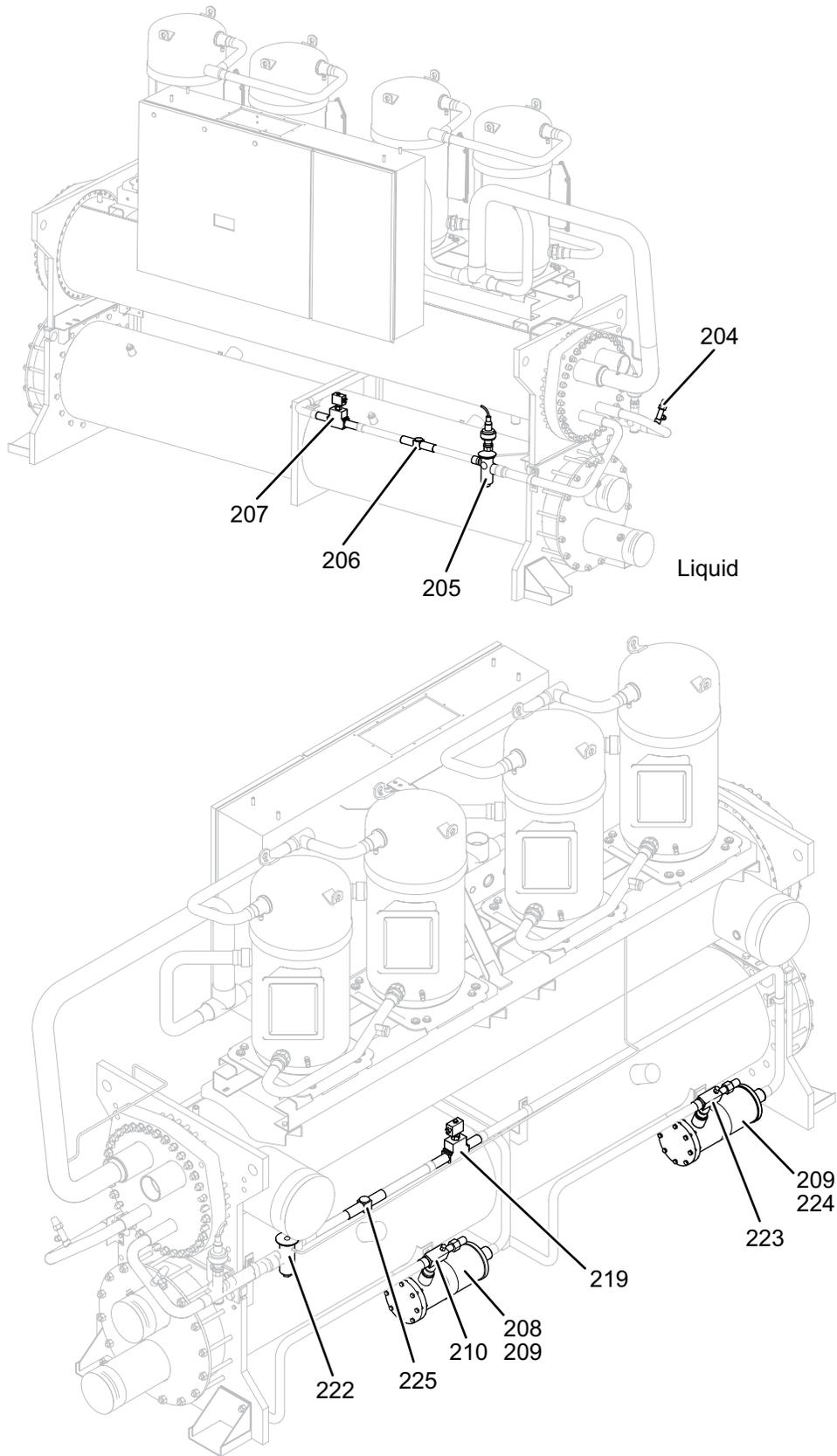
**TABLE 8 - SYSTEM PIPING MODELS 0056 - 050T, 060T, 070T, 080T, 090T, 100T, 115T, 130T, AND 150T  
 (CONT'D)**

ITEM	PIN 31 =	MODELS	DESCRIPTION	PART NUMBER	SAP	FIGURE
220	X, B	050T, 060T, 070T, 080T, 090T, 100T, 115T, 130T	Valve, Ball 2-1/8 Ods Conn	022-09752-000	731278	8
	X, B	150T	Valve Shut Off Ball Valve	022-09753-000	378432	
221	B	050T, 060T, 070T	Valve, Ball 2-1/8 Ods Conn	022-09752-000	731278	8
		080T, 090T, 100T, 115T, 130T, 150T	Valve Shut Off Ball Valve	022-09753-000	378432	
222	X, B	050T	Valve Txv, Tgel 40-35	025-40900-006	739944	9, 10
			Valve Expan. Elect Danfos (Pin 32 = E)	025-44670-050	740579	
	X, B	060T	Valve Txv, Tgel 40-46	025-40900-007	739945	
			Valve Expan. Elect Danfos (Pin 32 = E)	025-44670-050	740579	
	X, B	070T, 080T, 090T, 100T	Valve Txv, Tre 80-80 L	025-40900-008	739946	
			Valve Expan. Elect Danfos (Pin 32 = E)	025-44670-100	740580	
X, B	115T, 130T, 150T	Valve Txv, Tre 80-100 L	025-40900-004	739942		
		Valve Expan. Elect Danfos (Pin 32 = E)	025-44670-100	740580		
223	X, B	050T, 060T	Valve Liq Line Svc 7/8 Ods	022-02992-000	533388	9, 10
	X, B	070T, 080T, 090T, 100T, 115T, 130T, 150T	Valve	022-10022-000	62512	
224	X, B	050T, 060T, 070T, 080T, 090T, 100T	Filter Drier Core 2 C-969	026-43984-002	415229	9, 10
		115T, 130T	Filter Drier Core 2 C-9611	026-43984-006	516658	
		150T	Filter Drier Core 4 C-19211	026-43984-004	741133	
225	X, B	050T, 060T	Indr Moist Liq 7/8 Odf	026-12992-000	439702	9, 10
	X, B	070T, 080T, 090T, 100T, 115T, 130T, 150T	Indr Moist Liq 1-1/8 Odf	026-14125-000	391921	



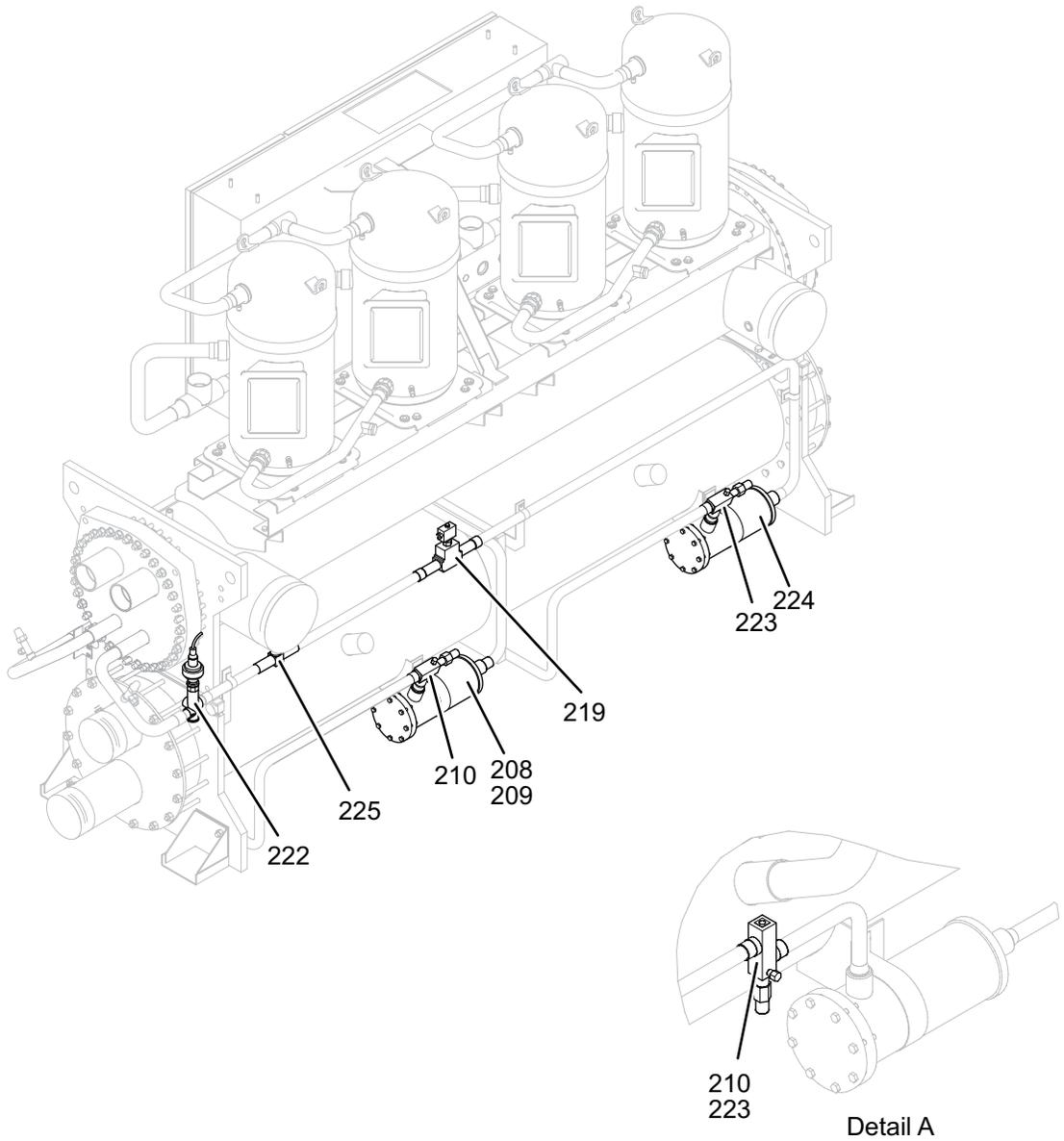
LD19246

**FIGURE 8 - SYSTEM PIPING**



**FIGURE 9 - SYSTEM PIPING**

LD19247



Detail A  
 Item 210 and 223 are  
 oriented as shown,  
 for the following units

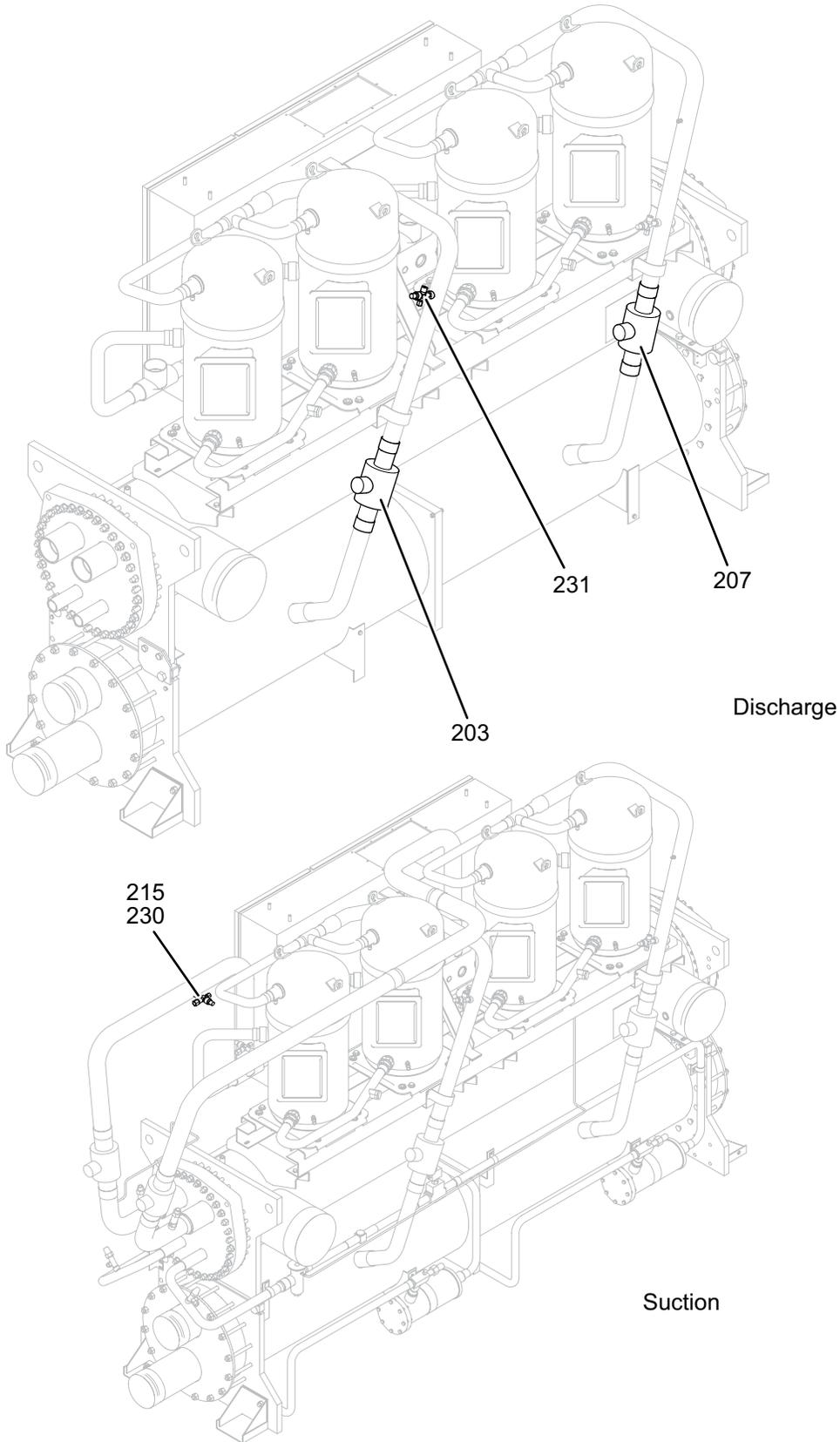
QWC3050TSE	BOTH SYSTEMS
QWC3060TSE	BOTH SYSTEMS
QWC3060THE	BOTH SYSTEMS
QWC3070TSE	SYSTEM 2
QWC3070THE	SYSTEM 2

LD19248

**FIGURE 10 - SYSTEM PIPING**

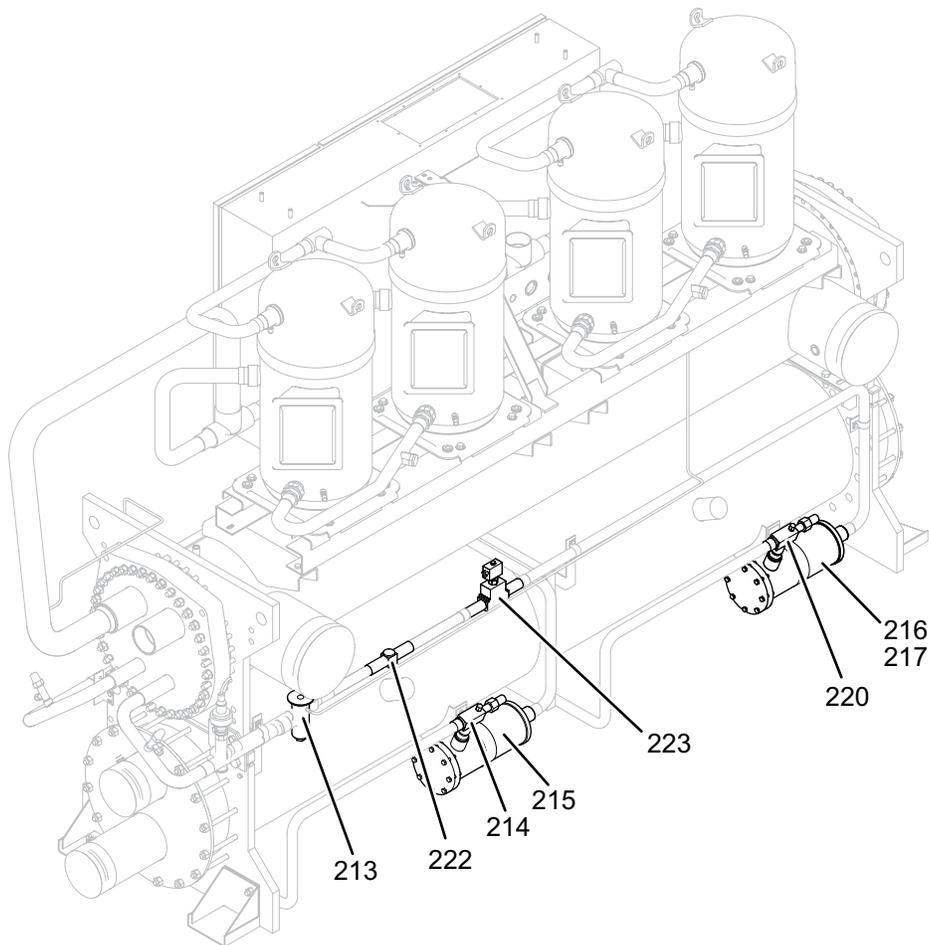
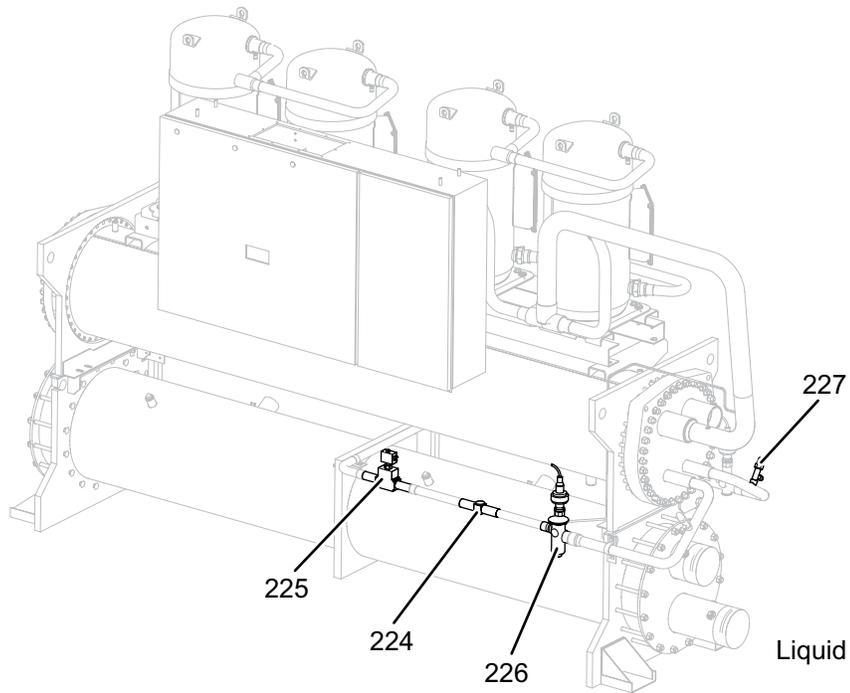
**TABLE 9 - SYSTEM PIPING MODELS 095T, 130T, 170T AND 200T**

ITEM	PIN 31 =	MODELS	DESCRIPTION	PART NUMBER	SAP	FIGURE
203	X, B	095T	Valve, Ball 2-1/8 Ods Conn	022-09752-000	731278	11
	X	130T	Valve Shut Off Ball Valve	022-09753-000	378432	
	B		Valve, Ball 2-1/8 Ods Conn	022-09752-000	731278	
	X, B	170T, 200T	Valve Shut Off Ball Valve	022-09753-000	378432	
207	X, B	095T	Valve, Ball 2-1/8 Ods Conn	022-09752-000	731278	11
		130T, 170T, 200T	Valve Shut Off Ball Valve	022-09753-000	378432	
210	B	095T	Valve, Ball 2-1/8 Ods Conn	022-09752-000	731278	13
		130T, 170T, 200T	Valve Shut Off Ball Valve	022-09753-000	378432	
213	X, B	095T	Valve Txv , Tre 80-80 L	025-40900-008	739946	12
			Valve Expan. Elect Danfos (Pin 32 = E)	025-44670-100	740580	
		130T	Valve Txv, Tre 80-100 L	025-40900-004	739942	
			Valve Expan. Elect Danfos (Pin 32 = E)	025-44670-100	740580	
X, B	170T, 200T	Valve Expan. Elect Danfos	025-44670-100	740580		
214	X, B	095T, 130T	Valve	022-10022-000	62512	12
		170T, 200T	Valve, Liq Line Svc 1-3/8 Ods	022-09778-000	731282	
215	X, B	095T	Filter Drier Core 3 C-1449	026-43984-001	741131	11, 12
		130T	Filter Drier Core 3 C-14411	026-43984-003	741132	
		170T, 200T	Filter Drier Core 4 C-19213	026-43984-005	741134	
216	X, B	095T, 130T, 170T, 200T	Ctg Dehy 100 Percent Molecular	026-37540-000	740964	12, 13
217	X, B	095T	Filter Drier Core 3 C-1449	026-43984-001	741131	12
		130T	Filter Drier Core 3 C-14411	026-43984-003	741132	
		170T, 200T	Filter Drier Core 4 C-19213	026-43984-005	741134	
220	X, B	095T, 130T	Valve	022-10022-000	62512	12
		170T, 200T	Valve, Liq Line Svc 1-3/8 Ods	022-09778-000	731282	
222	X, B	095T, 130T	Indr Moist Liq 1-1/8 Odf	026-14125-000	391921	12, 13
		170T, 200T	Indr Moist Liq 1-3/8 Odf	026-20574-000	740701	
223	X, B	095T	Valve Solenoid 1-1/8 Odf	025-41841-000	536202	13
		130T	Valve, Solenoid 1-1/8 " Odf	025-41743-000	740010	
		170T, 200T	Valve Solenoid 1-5/8 Odf	025-47373-000	1189038	
224	X, B	095T, 130T	Indr Moist Liq 1-1/8 Odf	026-14125-000	391921	12, 13
		170T, 200T	Indr Moist Liq 1-3/8 Odf	026-20574-000	740701	
225	X, B	095T	Valve Solenoid 1-1/8 Odf	025-41841-000	536202	12, 13
		130T	Valve, Solenoid 1-1/8 " Odf	025-41743-000	740010	
		170T, 200T	Valve Solenoid 1-5/8 Odf	025-47373-000	1189038	
226	X, B	095T	Valve Txv Ycal, Tre 80-80 L	025-40900-008	739946	12
			Valve Expan. Elect Danfos (Pin 32 = E)	025-44670-100	740580	
		130T	Valve Txv, Tre 80-100 L	025-40900-004	739942	
			Valve Expan. Elect Danfos (Pin 32 = E)	025-44670-100	740580	
170T, 200T	Valve Expan. Elect Danfos	025-44670-100	740580			
227	X, B	095T, 130T, 170T, 200T	Valve, Charging Brass	022-09754-000	391983	12
229	X, B	095T, 130T, 170T, 200T	Valve Rel.3/8Mptx1/2FI 400Psi	022-11704-000	731425	13
230	X, B	095T, 130T, 170T, 200T	Valve, Transducer 1/2 Solder X	022-11735-000	430728	11



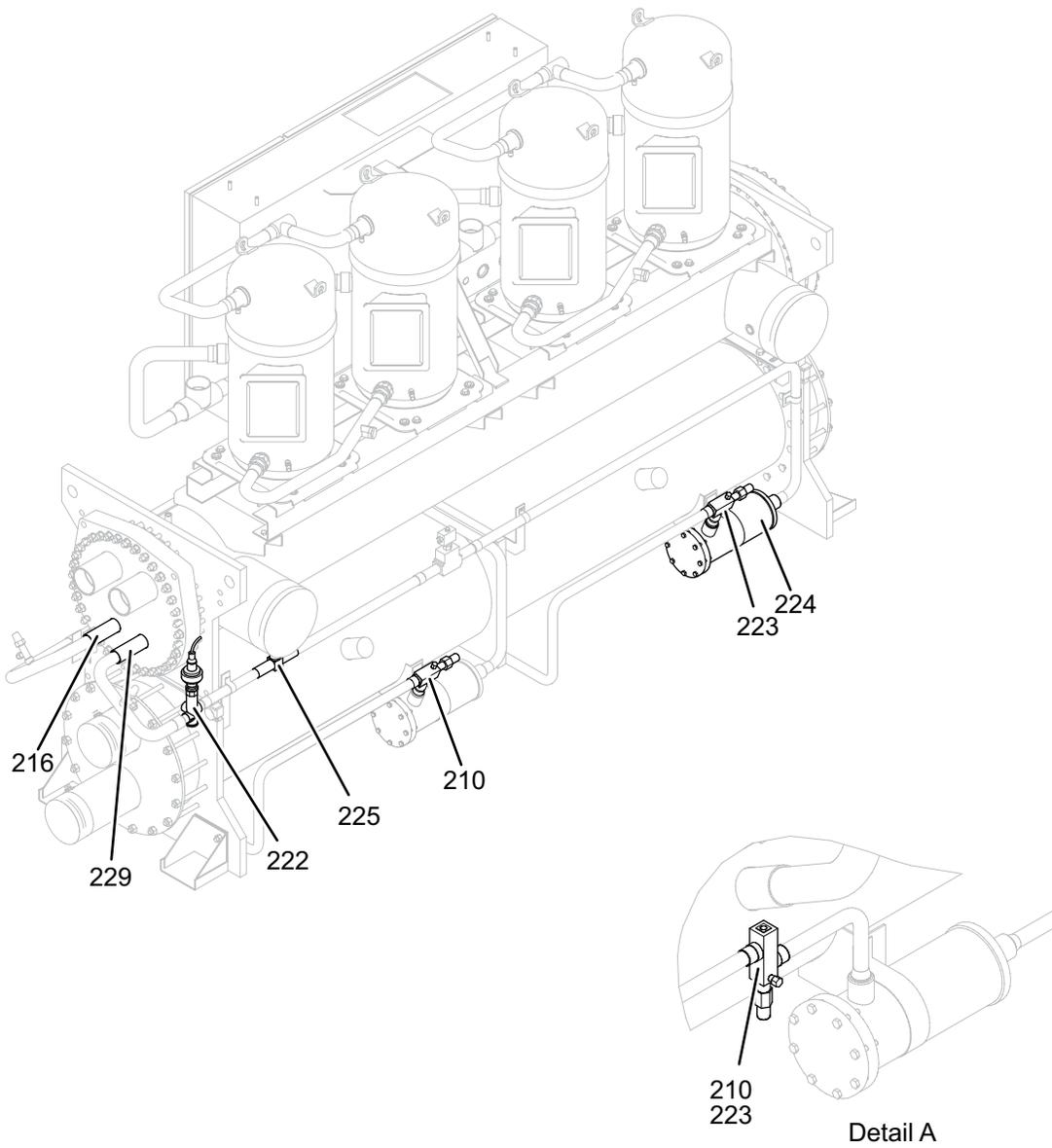
LD19243

**FIGURE 11 - SYSTEM PIPING MODELS 095T, 130T, 170T AND 200T**



LD19244

**FIGURE 12 - SYSTEM PIPING MODELS 095T, 130T, 170T AND 200T**



Detail A  
 Item 210 and 223 are  
 oriented as shown,  
 for the following units

QWC3050TSE	BOTH SYSTEMS
QWC3060TSE	BOTH SYSTEMS
QWC3060THE	BOTH SYSTEMS
QWC3070TSE	SYSTEM 2
QWC3070THE	SYSTEM 2

LD19245q

**FIGURE 13 - SYSTEM PIPING MODELS 095T, 130T, 170T AND 200T**

## COMPRESSOR

**TABLE 10 - COMPRESSOR PART NUMBERS - PIN 9 = S**

CHILLER MODEL QWC3	VOLTAGE CODE	SYSTEM 1				SYSTEM 2			
		COMP. MODEL #	COMPRESSOR #1	COMPRESSOR #2	COMPRESSOR #3	COMP. MODEL #	COMPRESSOR #4	COMPRESSOR #5	COMPRESSOR #6
050T	-17 & -28		015-04561-102	015-04561-102	N/A		015-04561-102	015-04561-102	N/A
	-40	GSD60154	015-04561-103	015-04561-103	N/A		015-04561-103	015-04561-103	N/A
	-46		015-04561-104	015-04561-104	N/A		015-04561-104	015-04561-104	N/A
	-58		015-04561-105	015-04561-105	N/A		015-04561-105	015-04561-105	N/A
060T	-17 & -28		015-04045-101	015-04045-101	N/A		015-04045-101	015-04045-101	N/A
	-40	ZP180KCE	015-04045-102	015-04045-102	N/A		015-04045-102	015-04045-102	N/A
	-46		015-04045-104	015-04045-104	N/A		015-04045-104	015-04045-104	N/A
	-58		015-04045-105	015-04045-105	N/A		015-04045-105	015-04045-105	N/A
070T	-17 & -28		015-04044-101	015-04044-101	N/A		015-04044-101	015-04044-101	N/A
	-40	ZP235KCE	015-04044-102	015-04044-102	N/A		015-04044-102	015-04044-102	N/A
	-46		015-04044-104	015-04044-104	N/A		015-04044-104	015-04044-104	N/A
	-58		015-04044-105	015-04044-105	N/A		015-04044-105	015-04044-105	N/A
080T	-17 & -28		015-04044-101	015-04044-101	N/A		015-04044-101	015-04044-101	N/A
	-40	ZP235KCE	015-04044-102	015-04044-102	N/A		015-04044-102	015-04044-102	N/A
	-46		015-04044-104	015-04044-104	N/A		015-04044-104	015-04044-104	N/A
	-58		015-04044-105	015-04044-105	N/A		015-04044-105	015-04044-105	N/A
090T	-17 & -28		015-04054-101	015-04054-101	N/A		015-04044-101	015-04044-101	N/A
	-40	ZP285KCE	015-04054-102	015-04054-102	N/A		015-04044-102	015-04044-102	N/A
	-46		015-04054-104	015-04054-104	N/A		015-04044-104	015-04044-104	N/A
	-58		015-04054-105	015-04054-105	N/A		015-04044-105	015-04044-105	N/A
095T	-17 & -28		015-04045-101	015-04045-101	015-04045-101		015-04045-101	015-04045-101	015-04045-101
	-40	ZP180KCE	015-04045-102	015-04045-102	015-04045-102		015-04045-102	015-04045-102	015-04045-102
	-46		015-04045-104	015-04045-104	015-04045-104		015-04045-104	015-04045-104	015-04045-104
	-58		015-04045-105	015-04045-105	015-04045-105		015-04045-105	015-04045-105	015-04045-105
100T	-17 & -28		015-04054-101	015-04054-101	N/A		015-04054-101	015-04054-101	N/A
	-40	ZP285KCE	015-04054-102	015-04054-102	N/A		015-04054-102	015-04054-102	N/A
	-46		015-04054-104	015-04054-104	N/A		015-04054-104	015-04054-104	N/A
	-58		015-04054-105	015-04054-105	N/A		015-04054-105	015-04054-105	N/A
115T	-17 & -28		015-04552-102	015-04552-102	N/A		015-04554-102	015-04554-102	N/A
	-40	GSD80385	015-04552-103	015-04552-103	N/A		015-04554-103	015-04554-103	N/A
	-46		015-04552-104	015-04552-104	N/A		015-04554-104	015-04554-104	N/A
	-58		015-04552-105	015-04552-105	N/A		015-04554-105	015-04554-105	N/A
130T	-17 & -28		015-04552-102	015-04552-102	N/A		015-04552-102	015-04552-102	N/A
	-40	GSD80385	015-04552-103	015-04552-103	N/A		015-04552-103	015-04552-103	N/A
	-46		015-04552-104	015-04552-104	N/A		015-04552-104	015-04552-104	N/A
	-58		015-04552-105	015-04552-105	N/A		015-04552-105	015-04552-105	N/A

**TABLE 10 - COMPRESSOR PART NUMBERS - PIN 9 = S (CONT'D)**

CHILLER MODEL	VOLTAGE CODE	SYSTEM 1				SYSTEM 2			
		COMP. MODEL #	COMPRESSOR #1	COMPRESSOR #2	COMPRESSOR #3	COMP. MODEL #	COMPRESSOR #4	COMPRESSOR #5	COMPRESSOR #6
<b>150T</b>	-17 & -28	GSD80421	015-04556-102	015-04556-102	N/A	GSD80421	015-04556-102	015-04556-102	N/A
	-40		015-04556-103	015-04556-103	N/A		015-04556-103	015-04556-103	N/A
	-46		015-04556-104	015-04556-104	N/A		015-04556-104	015-04556-104	N/A
	-58		015-04556-105	015-04556-105	N/A		015-04556-105	015-04556-105	N/A
<b>170T</b>	-17 & -28	GSD80385	015-04552-102	015-04552-102	015-04552-102	GSD80385	015-04552-102	015-04552-102	N/A
	-40		015-04552-103	015-04552-103	015-04552-103		015-04552-103	015-04552-103	N/A
	-46		015-04552-104	015-04552-104	015-04552-104		015-04552-104	015-04552-104	N/A
	-58		015-04552-105	015-04552-105	015-04552-105		015-04552-105	015-04552-105	N/A
<b>200T</b>	-17 & -28	GSD80385	015-04552-102	015-04552-102	015-04552-102	GSD80385	015-04552-102	015-04552-102	015-04552-102
	-40		015-04552-103	015-04552-103	015-04552-103		015-04552-103	015-04552-103	015-04552-103
	-46		015-04552-104	015-04552-104	015-04552-104		015-04552-104	015-04552-104	015-04552-104
	-58		015-04552-105	015-04552-105	015-04552-105		015-04552-105	015-04552-105	015-04552-105

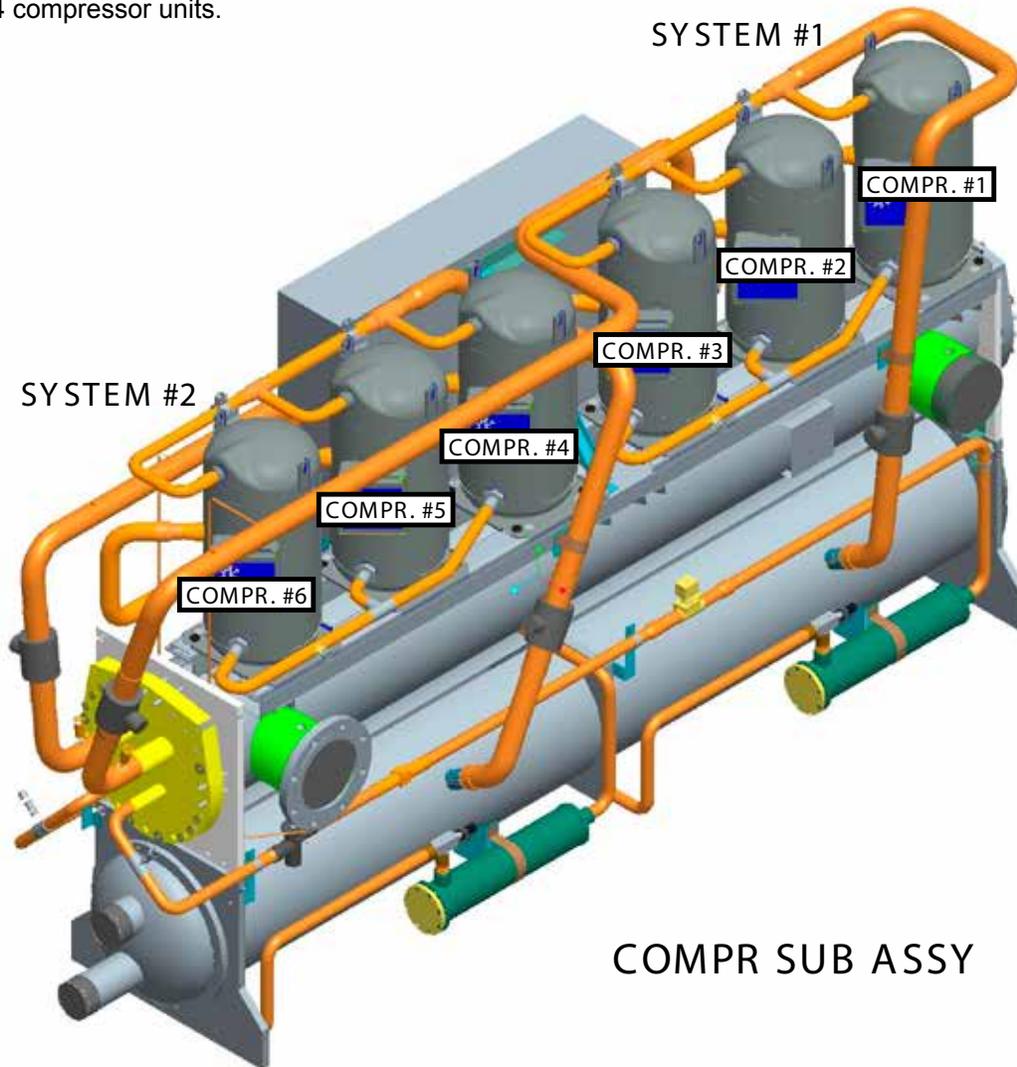
Note: \*No compressor power wiring is required, as power wiring is included in the compressor sub-assembly of these models.

TABLE 11 - COMPRESSOR PART NUMBERS - PIN 9 = H

CHILLER MODEL QWC3	VOLTAGE CODE	SYSTEM 1				SYSTEM 2			
		COMP. MODEL #	COMPRESSOR #1	COMPRESSOR #2	COMPRESSOR #3	COMP. MODEL #	COMPRESSOR #4	COMPRESSOR #5	COMPRESSOR #6
<b>060T</b>	-17 & -28	GSD60182	015-04560-102	015-04560-102	N/A	GSD60182	015-04560-102	015-04560-102	N/A
	-40		015-04560-103	015-04560-103	N/A		015-04560-103	015-04560-103	N/A
	-46		015-04560-104	015-04560-104	N/A		015-04560-104	015-04560-104	N/A
	-58		015-04560-105	015-04560-105	N/A		015-04560-105	015-04560-105	N/A
<b>070T</b>	-17 & -28	GSD80235	015-04553-102	015-04553-102	N/A	GSD80235	015-04560-102	015-04560-102	N/A
	-40		015-04553-103	015-04553-103	N/A		015-04560-103	015-04560-103	N/A
	-46		015-04553-104	015-04553-104	N/A		015-04560-104	015-04560-104	N/A
	-58		015-04553-105	015-04553-105	N/A		015-04560-105	015-04560-105	N/A
<b>080T</b>	-17 & -28	GSD80235	015-04553-102	015-04553-102	N/A	GSD80235	015-04553-102	015-04553-102	N/A
	-40		015-04553-103	015-04553-103	N/A		015-04553-103	015-04553-103	N/A
	-46		015-04553-104	015-04553-104	N/A		015-04553-104	015-04553-104	N/A
	-58		015-04553-105	015-04553-105	N/A		015-04553-105	015-04553-105	N/A
<b>090T</b>	-17 & -28	GSD80295	015-04554-102	015-04554-102	N/A	GSD80295	015-04553-102	015-04553-102	N/A
	-40		015-04554-103	015-04554-103	N/A		015-04553-103	015-04553-103	N/A
	-46		015-04554-104	015-04554-104	N/A		015-04553-104	015-04553-104	N/A
	-58		015-04554-105	015-04554-105	N/A		015-04553-105	015-04553-105	N/A
<b>095T</b>	-17 & -28	GSD60182	015-04560-102	015-04560-102	015-04560-102	GSD60182	015-04560-102	015-04560-102	015-04560-102
	-40		015-04560-103	015-04560-103	015-04560-103		015-04560-103	015-04560-103	015-04560-103
	-46		015-04560-104	015-04560-104	015-04560-104		015-04560-104	015-04560-104	015-04560-104
	-58		015-04560-105	015-04560-105	015-04560-105		015-04560-105	015-04560-105	015-04560-105
<b>115T</b>	-17 & -28	GSD80385	015-04552-102	015-04552-102	N/A	GSD80385	015-04554-102	015-04554-102	N/A
	-40		015-04552-103	015-04552-103	N/A		015-04554-103	015-04554-103	N/A
	-46		015-04552-104	015-04552-104	N/A		015-04554-104	015-04554-104	N/A
	-58		015-04552-105	015-04552-105	N/A		015-04554-105	015-04554-105	N/A
<b>130T</b>	-17 & -28	GSD80235	015-04553-102	015-04553-102	015-04552-102	GSD80235	015-04552-102	015-04552-102	N/A
	-40		015-04553-103	015-04553-103	015-04552-103		015-04552-103	015-04552-103	N/A
	-46		015-04553-104	015-04553-104	015-04552-104		015-04552-104	015-04552-104	N/A
	-58		015-04553-105	015-04553-105	015-04552-105		015-04552-105	015-04552-105	N/A
<b>150T</b>	-17 & -28	GSD80235	015-04553-102	015-04553-102	N/A	GSD80235	015-04556-102	015-04556-102	N/A
	-40		015-04553-103	015-04553-103	N/A		015-04556-103	015-04556-103	N/A
	-46		015-04553-104	015-04553-104	N/A		015-04556-104	015-04556-104	N/A
	-58		015-04553-105	015-04553-105	N/A		015-04556-105	015-04556-105	N/A

Note: \*No compressor power wiring is required, as power wiring is included in the compressor sub-assembly of these models.

**NOTE:** System 1 Compressor #3 and System 2 Compressor #6 are omitted on the 4 compressor units.



67812-002

Reference Table 10 & 11 starting on page 33

**FIGURE 14 - COMPRESSOR PART NUMBERS**

## CONTROL PANEL AND POWER PANEL CONFIGURATIONS

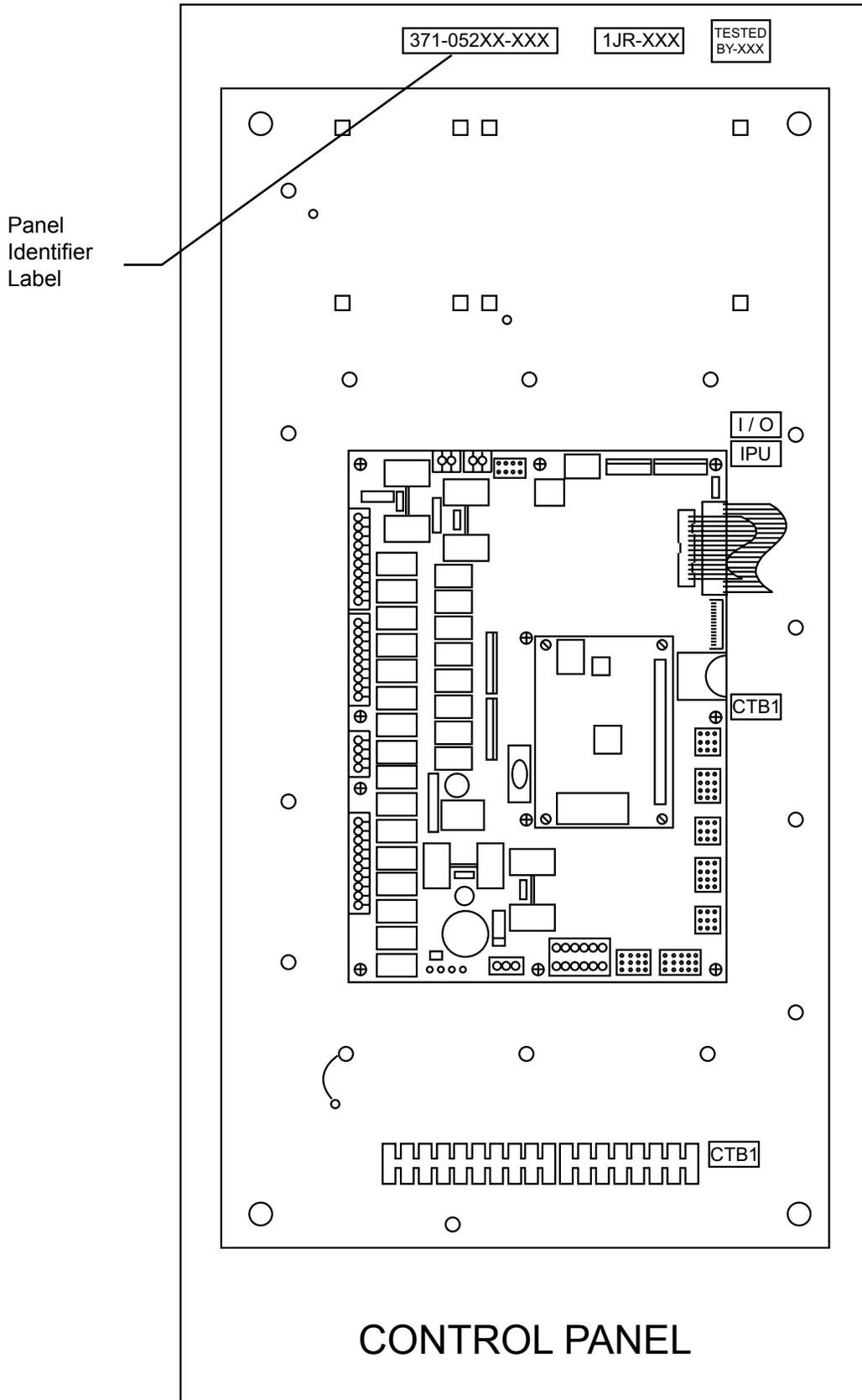
Power panels and option panels are offered in several different configurations using three (3) major components:

1. Terminal Blocks
2. Circuit Breakers
3. Non-Fused Disconnect Switches

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

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

REQUIRED TRANSFORMER			
MODEL	CONTROL POWER TRANSFORMER KIT	VOLTAGE CODE	PART NUMBER
<b>60HZ</b>	1.0 KVA	-17	375-75132-101
		-28	375-75132-102
		-40	375-75132-103
		-46	375-75132-105
		-58	375-75132-106



209789-1

**FIGURE 15 - CONTROL AND POWER PANEL IDENTIFIER LOCATION**

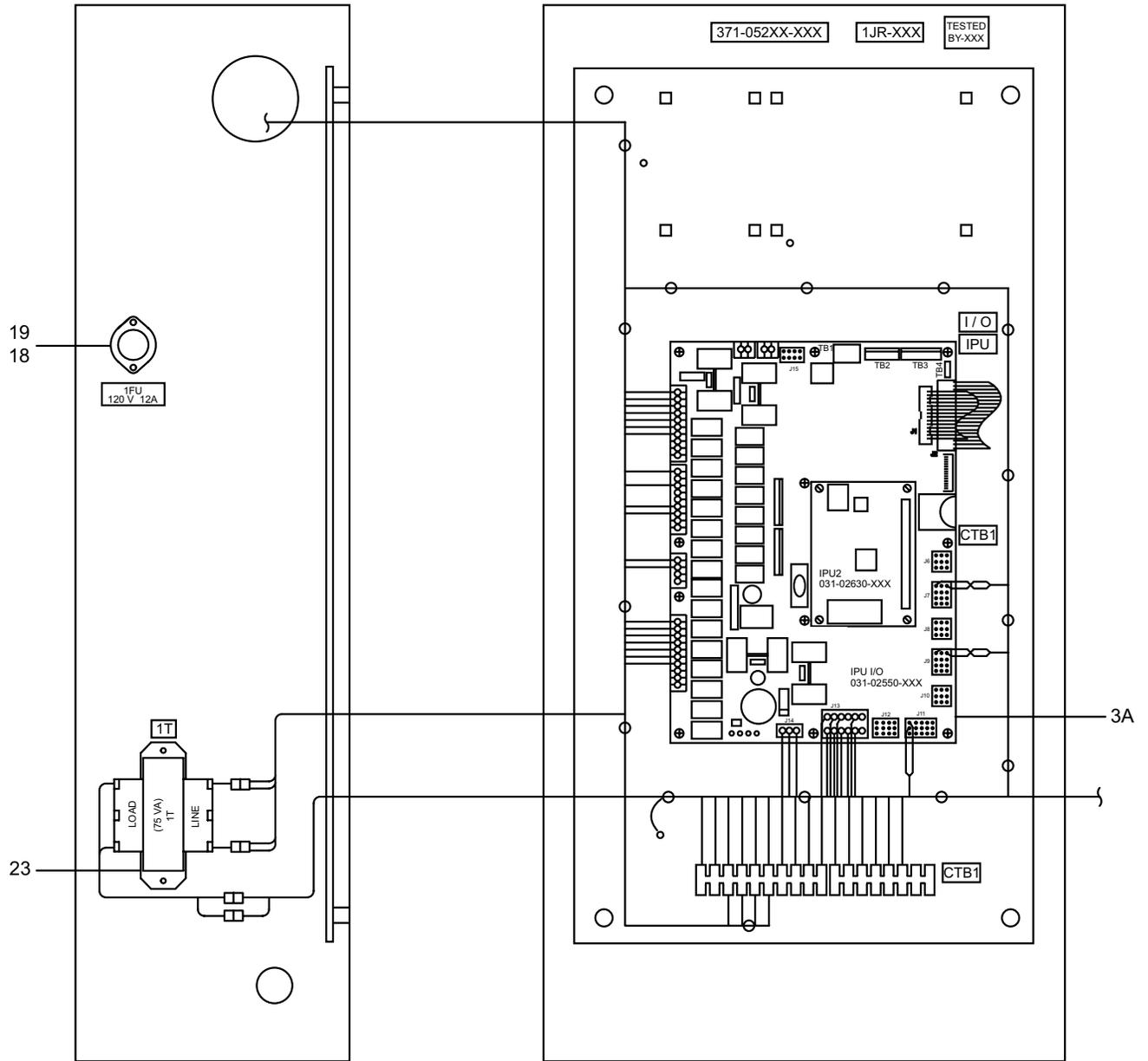
**TABLE 12 - CONTROL PANEL AND POWER PANEL IDENTIFIERS**

<b>MODEL QWC3</b>	<b>VOLTAGE CODE</b>	<b>SINGLE POINT TERMINAL BLOCK (XX)</b>	<b>SINGLE POINT NON-FUSED DISCONNECT (SD)</b>	<b>SINGLE POINT CIRCUIT BREAKER (BX)</b>	<b>MULTI POINT SUPPLY (MB)</b>
<b>050T</b>	17 & 28	371-05212-101	371-05209-201	371-05209-301	371-05209-501
	40	371-05212-119	371-05209-219	371-05209-319	371-05209-521
	46	371-05212-102	371-05209-202	371-50209-302	371-05209-511
	58			371-05209-370	371-05209-531
<b>060T</b>	17 & 28	371-05212-105	371-05209-205	371-05209-311	371-05209-502
	40	371-05212-106	371-05209-220	371-05209-312	371-05209-522
	46		371-05209-206	371-05209-313	371-05209-512
	58		371-05209-227	371-05209-314	371-05209-532
<b>070T</b>	17 & 28	371-05212-107	371-05209-207	371-05209-317	371-05209-503
	40	371-05212-108	371-05209-208	371-05209-318	371-05209-523
	46		371-05209-224	371-05209-308	371-05209-513
	58		371-05209-228	371-05209-320	371-05209-533
<b>080T</b>	17 & 28	371-05212-109	371-05209-209	371-05209-325	371-05209-504
	40	371-05212-110	371-05209-210	371-05209-326	371-05209-524
	46			371-05209-327	371-05209-514
	58		371-05209-221	371-05209-328	371-05209-534
<b>090T</b>	17 & 28	371-05212-111	371-05209-211	371-05209-335	371-05209-505
	40	371-05212-112	371-05209-229	371-05209-336	371-05209-525
	46		371-05209-212	371-05209-337	371-05209-515
	58		371-05209-222	371-05209-338	371-05209-535
<b>095T</b>	17 & 28	371-05213-101	371-05210-201	371-05210-301	371-05210-501
	40	371-05213-102	371-05210-202	371-05210-302	371-05210-521
	46		371-05210-220	371-05210-303	371-05210-511
	58		371-05210-234	371-05210-304	371-05210-531
<b>100T</b>	17 & 28	371-05212-113	371-05209-213	371-05209-341	371-05209-506
	40	371-05212-114	371-05209-230	371-05209-342	371-05209-526
	46		371-05209-214	371-05209-343	371-05209-516
	58		371-05209-223	371-05209-345	371-05209-536
<b>115T</b>	17 & 28	371-05212-115	371-05974-201	371-05974-301	371-05974-501
	40	371-05212-116	371-05209-231	371-05209-352	371-05974-527
	46		371-05209-216	371-05209-353	371-05209-517
	58		371-05209-232	371-05209-354	371-05209-537
<b>130THE</b>	17 & 28	371-05975-101	371-05974-202	371-05974-302	371-05974-502
	40	371-05975-102	371-05974-203	371-05974-303	371-05974-503
	46	371-05975-103	371-05974-204	371-05974-304	371-05974-504
	58	371-05975-104	371-05974-205	371-05974-305	371-05974-505
<b>130TSE</b>	17 & 28	371-05212-117	371-05209-217	371-05209-361	371-05209-508
	40	371-05212-120	371-05209-218	371-05209-362	371-05209-528
	46	371-05212-118		371-05209-363	371-05209-518
	58		371-05209-233	371-05209-364	371-05209-538

**TABLE 12 – CONTROL PANEL AND POWER PANEL IDENTIFIERS (CONT'D)**

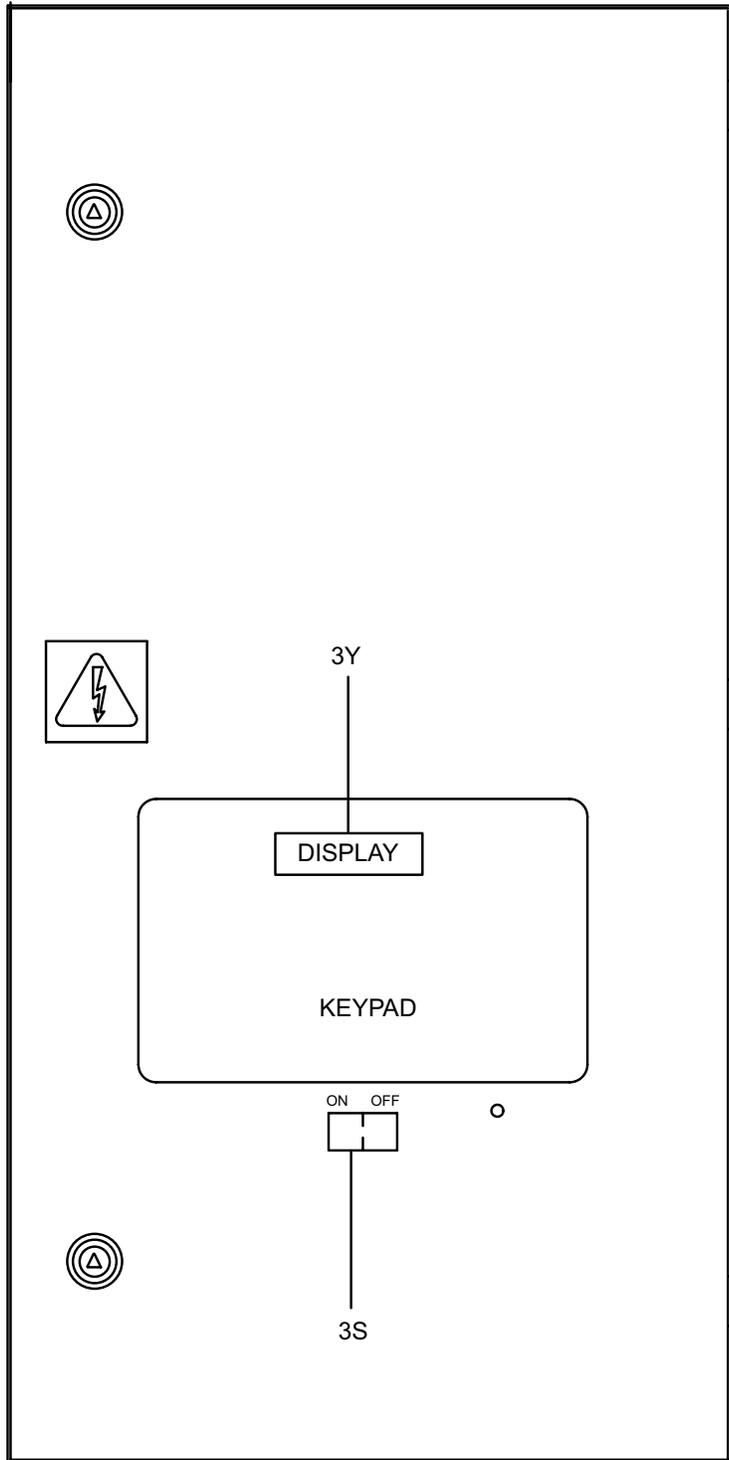
MODEL QWC3	VOLTAGE CODE	SINGLE POINT TERMINAL BLOCK (XX)	SINGLE POINT NON-FUSED DISCONNECT (SD)	SINGLE POINT CIRCUIT BREAKER (BX)	MULTI POINT SUPPLY (MB)
<b>150T</b>	17	371-05975-105	371-05974-206	371-05974-306	371-05974-506
	28		371-05209-217	371-05209-361	371-05209-508
	40	371-05212-120	371-05974-207	371-05974-307	371-05974-507
	46	371-05212-118	371-05209-218	371-05974-308	371-05974-508
	58		371-05209-233	371-05209-364	371-05974-509
<b>170T</b>	17 & 28	N/A	371-05210-211	371-05210-323	371-05586-501
	40	371-05213-116	371-05210-238	371-05210-348	371-05586-502
	46	371-05213-112	371-05210-212	371-05210-324	371-05586-503
	58		371-05210-239	371-05210-349	371-05586-504
<b>200T</b>	17 & 28	N/A	371-05210-213	371-05210-325	371-05586-506
	40	371-05213-118	371-05210-241	371-05210-350	371-05586-507
	46	371-05213-114	371-05210-214	371-05210-326	371-05586-508
	58	371-05213-117	371-05210-240	371-05210-351	371-05586-509

(To Identify Replacement Part Numbers, Select Panel Identifier Number From Table 12 Or From The Panel Identifier Label Shown in *Figure 15 on page 38*, Then Refer To The 'Control And Power Panel Components' *Table 13 on page 44* And Figures 16, 17 & 18 starting on page 41)



Reference TABLE 13 starting on page 44

**FIGURE 16 - CONTROL PANEL COMPONENTS**

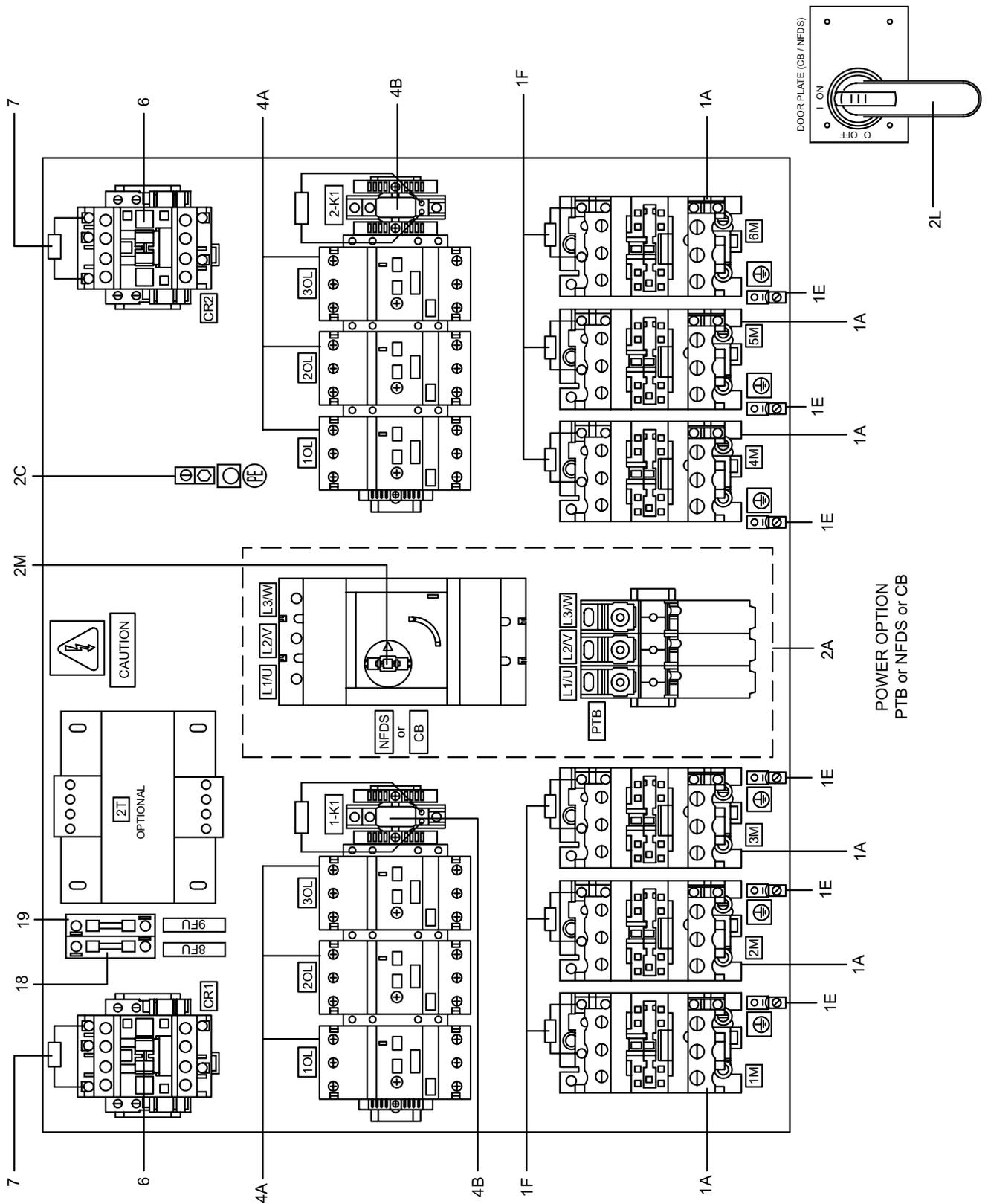


FRONT VIEW

ITEM	DESCRIPTION	PART NUMBER
Key, Control Panel	Door Lock	029-23454-000

Reference TABLE 13 starting on page 44

**FIGURE 17 - CONTROL PANEL COMPONENTS**



Reference TABLE 13 starting on page 44

FIGURE 18 - POWER PANEL COMPONENTS

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

ITEM	DESCRIPTION	QWC3050T-17 & QWC3050T-28						QWC3050T-40			
		371-05212-101* XX	371-05209-201* SD	371-05209-301* BX	371-05209-501* MB	371-05212-119* XX	371-05209-219* SD	371-05209-319* BX	371-05209-521* MB		
1A	Comp. Contactor (L)	024-35467-000	024-35462-000	024-35462-000	024-37040-000	024-35459-000	024-35462-000	024-34306-000			
	Comp. Contactor (R)						024-35459-000				
1E	Ground Lug	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000			
1F	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	024-38978-003	031-00808-000	031-00808-000	031-00808-000			
2A	Single Point Terminal Block	025-38364-000	N/A	N/A	N/A	025-38358-000	N/A	N/A			
	Single Point Circuit Breaker	N/A	N/A	024-37002-000	N/A	N/A	N/A	024-31843-000			
2B	Single Point NF Disconnect Switch	N/A	024-30963-000	N/A	N/A	N/A	024-31888-000	N/A			
	Lug Kit	N/A	025-34418-000	025-34480-000	025-34478-000	N/A	025-34479-000	025-34478-000			
2C	Ground Lug	025-34085-000	025-34085-000	025-34089-000	025-34088-000	025-34088-000	025-34088-000	025-34088-000			
2L	Handle	N/A	024-31880-000	024-31880-000	024-37050-000	N/A	024-31880-000	024-37050-000			
2M	Shaft	N/A	SW-0688	SW-0688	024-31879-000	N/A	SW-0688	024-31879-000			
3A	I/O IPU2 Board Kit	031-02550-101	031-02550-101	031-02550-101	031-02550-001	031-02550-101	031-02550-101	031-02550-001			
3Qs	Flash Card	031-02755-001	031-02755-001	031-02755-001	031-02755-004	031-02755-001	031-02755-001	031-02755-004			
3S	Switch	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000			
3Y	Display	031-01110-000	031-01110-000	031-01110-000	031-02109-000	031-01110-000	031-01110-000	031-02109-000			
4A	Overload	N/A	025-34488-000	025-34488-000	N/A	N/A	024-31816-000	N/A			
4B	Auxiliary Contact	N/A	024-31814-000	024-31814-000	024-33176-000	N/A	024-31814-000	024-33176-000			
6	Control Relay	024-35526-000	024-35526-000	024-35526-000	024-37045-000	024-35526-000	024-35526-000	024-37045-000			
7	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	024-38978-003	031-00808-000	031-00808-000	031-00808-000			
18	Fuse Block	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000			
19	Fuse	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000			
23	Control Transformer	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000			
28	Ground Bar	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000			

**S** = Recommended Spare Part

<b>XX*</b>	Single Point Terminal Block
<b>SD*</b>	Single Point Non-Fused Disconnect Switch
<b>BX*</b>	Single Point Circuit Breaker

**\*Service Note:** Locate the PANEL NUMBER sticker on the enclosure sheet metal above the back panel in the Micro Panel section (Figure 15 on page 38), then refer to the appropriate parts list for that number. Or, identify PIN number positions 16 and 17 on unit identification plate then compare to table at left for power configuration options.

See Figures 15, 16, & 17 starting on page 38.

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

ITEM	DESCRIPTION	QWC3050T-46					QWC3050T-58				
		371-05212-102* XX	371-05209-202* SD	371-05209-302* BX	371-05209-511* MB	371-05212-102* XX	371-05209-202* SD	371-05209-370* BX	371-05209-531* MB		
1A	Comp. Contactor (L)	024-35459-000	024-35454-000	024-35454-000	024-34306-000	024-35459-000	024-35454-000	024-35454-000	024-34306-000		
	Comp. Contactor (R)										
1E	Ground Lug	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000		
1F	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000		
2A	Single Point Terminal Block	025-38358-000	N/A	N/A	N/A	025-38358-000	N/A	N/A	N/A		
	Single Point Circuit Breaker	N/A	N/A	024-31841-000	N/A	N/A	N/A	024-31839-000	N/A		
	Single Point NF Disconnect Switch	N/A	024-31888-000	N/A	N/A	N/A	024-31888-000	N/A	N/A		
2B	Lug Kit	N/A	025-34479-000	025-34478-000	025-34478-000	N/A	025-34479-000	025-34478-000	025-34478-000		
2C	Ground Lug	025-34088-000	025-34088-000	025-34455-000	025-34088-000	025-34088-000	025-34088-000	025-34455-000	025-34088-000		
2L	Handle	N/A	024-31880-000	024-31880-000	024-37050-000	N/A	024-31880-000	024-31880-000	024-37050-000		
2M	Shaft (8.86")	N/A	SW-0688	SW-0688	024-31879-000	N/A	SW-0688	SW-0688	024-31879-000		
3A	I/O IPU2 Board Kit	331-02550-101	331-02550-101	331-02550-101	031-02109-000	331-02550-101	331-02550-101	331-02550-101	031-02550-001		
3Qs	Flash Card	031-02755-001	031-02755-001	031-02755-001	031-02755-004	031-02755-001	031-02755-001	031-02755-001	031-02755-004		
3S	Switch	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000		
3Y	Display	031-01110-000	031-01110-000	031-01110-000	031-01110-000	031-01110-000	031-01110-000	031-01110-000	031-02109-000		
4A	Manual Starter	N/A	024-33172-000	024-33172-000	024-33181-000	N/A	025-33172-000	025-33172-000	024-33181-000		
4B	Auxiliary Contact	N/A	024-33176-000	024-33176-000	024-33176-000	N/A	024-33176-000	024-33176-000	024-33176-000		
6	Control Relay	024-35526-000	024-35526-000	024-35526-000	024-37045-000	024-35526-000	024-35526-000	024-35526-000	024-37045-000		
7	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000		
18	Fuse Block	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000		
19	Fuse	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000		
23	Control Transformer	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000		
28	Ground Bar	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000		

**S** = Recommended Spare Part

<b>XX*</b>	Single Point Terminal Block
<b>SD*</b>	Single Point Non-Fused Disconnect Switch
<b>BX*</b>	Single Point Circuit Breaker

**\*Service Note:** Locate the PANEL NUMBER sticker on the enclosure sheet metal above the back panel in the Micro Panel section (Figure 15 on page 38), then refer to the appropriate parts list for that number. Or, identify PIN number positions 16 and 17 on unit identification plate then compare to table at left for power configuration options.

See Figures 15, 16, & 17 starting on page 38.

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

ITEM	DESCRIPTION	QWC3060-17 & QWC3060-28					QWC3060-40				
		371-05212-105*	371-05209-205*	371-05209-311*	371-05209-502*	371-05212-106*	371-05209-220*	371-05209-312*	371-05209-521*		
1A	Comp. Contactor (L)	024-35470-000	024-35467-000	024-35467-000	024-37041-000	024-35467-000	024-35454-000	024-35459-000	024-37039-000		
	Comp. Contactor (R)										
1E	Ground Lug	025-34088-000	025-34455-000	025-34455-000	025-34088-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000		
1F	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	024-38978-003	031-00808-000	031-00808-000	031-00808-000	024-38978-003		
2A	Single Point Terminal Block	025-38370-000	N/A	N/A	N/A	025-38364-000	N/A	N/A	N/A		
	Single Point Circuit Breaker	N/A	N/A	024-31851-000	N/A	N/A	N/A	024-31844-000	N/A		
2B	Single Point NF Disconnect Switch	N/A	024-30963-000	N/A	N/A	N/A	024-31888-000	N/A	N/A		
	Lug Kit	N/A	025-34418-000	025-34480-000	025-34479-000	N/A	025-34479-000	025-34479-000	025-34478-000		
2C	Ground Lug	025-34086-000	025-34085-000	025-34089-000	025-34088-000	025-34085-000	025-34088-000	025-34088-000	025-34088-000		
2L	Handle	N/A	024-31880-000	024-31880-000	024-37050-000	N/A	024-31880-000	024-31880-000	024-37050-000		
2M	Shaft (8.86")	N/A	SW-0688	SW-0688	024-31879-000	N/A	SW-0688	SW-0688	024-31879-000		
3A	I/O IPU2 Board Kit	331-02550-101	331-02550-101	331-02550-101	031-02550-001	331-02550-101	331-02550-101	331-02550-101	031-02550-001		
3Qs	Flash Card	031-02755-001	031-02755-001	031-02755-001	031-02755-004	031-02755-001	031-02755-001	031-02755-001	031-02755-004		
3S	Switch	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000		
3Y	Display	031-01110-000	031-01110-000	031-01110-000	031-02109-000	031-01110-000	031-01110-000	031-01110-000	031-02109-000		
4A	Manual Starter	N/A	025-34488-000	025-34488-000	024-37807-000	N/A	024-33172-000	024-31816-000	024-37805-000		
4B	Auxiliary Contact	N/A	024-31814-000	024-31814-000	024-33176-000	N/A	024-33176-000	024-31814-000	024-33176-000		
6	Control Relay	024-35526-000	024-35526-000	024-35526-000	024-37045-000	024-35526-000	024-35526-000	024-35526-000	024-37045-000		
7	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	024-38978-003	031-00808-000	031-00808-000	031-00808-000	024-38978-003		
18	Fuse Block	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000		
19	Fuse	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000		
23	Control Transformer	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000		
28	Ground Bar	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000		

S = Recommended Spare Part

<b>XX*</b>	Single Point Terminal Block
<b>SD*</b>	Single Point Non-Fused Disconnect Switch
<b>BX*</b>	Single Point Circuit Breaker

**\*Service Note:** Locate the PANEL NUMBER sticker on the enclosure sheet metal above the back panel in the Micro Panel section (Figure 15 on page 38), then refer to the appropriate parts list for that number. Or, identify PIN number positions 16 and 17 on unit identification plate then compare to table at left for power configuration options.

See Figures 15, 16, & 17 starting on page 38.

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

ITEM	DESCRIPTION	QWC3060-46				QWC3060-58			
		371-05212-106* XX	371-05209-206* SD	371-05209-313* BX	371-05209-512* MB	371-05212-106* XX	371-05209-227* SD	371-05209-314* BX	371-05209-532* MB
1A	Comp. Contactor (L)	024-35467-000	024-35459-000	024-35459-000	024-37039-000	024-35467-000	024-35459-000	024-35459-000	024-37039-000
	Comp. Contactor (R)								
1E	Ground Lug (L)	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000
	Ground Lug (R)								
1F	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	024-38978-003	031-00808-000	031-00808-000	031-00808-000	024-38978-003
2A	Single Point Terminal Block	025-38364-000	N/A	N/A	N/A	025-38364-000	N/A	N/A	N/A
	Single Point Circuit Breaker	N/A	N/A	024-31843-000	N/A	N/A	N/A	024-31841-000	N/A
	Single Point NF Disconnect Switch	N/A	024-31888-000	N/A	N/A	N/A	024-31888-000	N/A	N/A
2B	Lug Kit	N/A	025-34479-000	025-34478-000	025-34478-000	N/A	025-34479-000	025-34478-000	
2C	Ground Lug	025-34085-000	025-34088-000	025-34088-000	025-34088-000	025-34085-000	025-34088-000	025-34088-000	
2L	Handle	N/A	024-31880-000	024-31880-000	024-37050-000	N/A	024-31880-000	024-37050-000	
2M	Shaft (8.86")	N/A	SW-0688	SW-0688	024-31879-000	N/A	SW-0688	024-31879-000	
3A	I/O IPU2 Board Kit	331-02550-101	331-02550-101	331-02550-101	031-02550-001	331-02550-101	331-02550-101	031-02550-001	
3Q <sup>S</sup>	Flash Card	031-02755-001	031-02755-001	031-02755-001	031-02755-004	031-02755-001	031-02755-001	031-02755-004	
3S	Switch	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	
3Y	Display	031-01110-000	031-01110-000	031-01110-000	031-02109-000	031-01110-000	031-01110-000	031-02109-000	
4A	Manual Starter	N/A	024-31816-000	024-31816-000	024-33183-000	N/A	024-33172-000	024-33182-000	
4B	Auxiliary Contact	N/A	024-31814-000	024-31814-000	024-33176-000	N/A	024-33176-000	024-33176-000	
6	Control Relay	024-35526-000	024-35526-000	024-35526-000	024-37045-000	024-35526-000	024-35526-000	024-37045-000	
7	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	024-38978-003	031-00808-000	031-00808-000	024-38978-003	
18	Fuse Block	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	
19	Fuse	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	
23	Control Transformer	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	
28	Ground Bar	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	

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

<b>XX*</b>	Single Point Terminal Block
<b>SD*</b>	Single Point Non-Fused Disconnect Switch
<b>BX*</b>	Single Point Circuit Breaker

**\*Service Note:** Locate the PANEL NUMBER sticker on the enclosure sheet metal above the back panel in the Micro Panel section (Figure 15 on page 38), then refer to the appropriate parts list for that number. Or, identify PIN number positions 16 and 17 on unit identification plate then compare to table at left for power configuration options.

See Figures 15, 16, & 17 starting on page 38.

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

ITEM	DESCRIPTION	QWC3070T-17 & QWC3070T-28				QWC3070T-40			
		371-05212-107* XX	371-05209-207* SD	371-05209-317* BX	371-05209-503* MB	371-05212-108* XX	371-05209-208* SD	371-05209-318* BX	371-05209-523* MB
1A	Comp. Contactor (L)	024-35473-000	024-35470-000	024-35470-000	024-37041-000	024-35467-000	024-35462-000	024-35462-000	024-37040-000
	Comp. Contactor (R)	024-35470-000	024-35467-000	024-35467-000	024-34310-000		024-35459-000	024-35459-000	024-37041-000
1E	Ground Lug (L)	025-34455-000	025-34088-000	025-34088-000	025-34088-000	025-34455-000	025-34455-000	025-34455-000	025-34088-000
	Ground Lug (R)		025-34455-000	025-34455-000					
1F	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	
2A	Single Point Terminal Block	025-38370-000	N/A	N/A	N/A	025-38364-000	N/A	N/A	N/A
	Single Point Circuit Breaker	N/A	N/A	024-31819-000	N/A	N/A	N/A	024-31844-000	N/A
2B	Single Point NF Disconnect Switch	N/A	024-30963-000	N/A	N/A	N/A	024-31888-000	N/A	N/A
	Lug Kit	N/A	025-34418-000	025-34480-000	025-34479-000	N/A	025-34479-000	025-34479-000	025-34478-000
2C	Ground Lug	025-34086-000	025-34085-000	025-34089-000	025-34088-000	025-34085-000	025-34088-000	025-34088-000	
2L	Handle	N/A	024-31880-000	024-31880-000	024-37050-000	N/A	024-31880-000	024-31880-000	024-37050-000
2M	Shaft (8.86")	N/A	SW-0688	SW-0688	024-31879-000	N/A	SW-0688	SW-0688	024-31879-000
3A	I/O IPU2 Board Kit	331-02550-101	331-02550-101	331-02550-101	031-02550-001	331-02550-101	331-02550-101	331-02550-101	031-02550-001
3Q <sup>S</sup>	Flash Card	031-02755-001	031-02755-001	031-02755-001	031-02755-004	031-02755-001	031-02755-001	031-02755-001	031-02755-004
3S	Switch	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000
3Y	Display	031-01110-000	031-01110-000	031-01110-000	031-02109-000	031-01110-000	031-01110-000	031-01110-000	031-02109-000
4A	Manual Starter	N/A	025-34488-000	025-34488-000	024-37807-000	N/A	024-31816-000	024-31816-000	024-37805-000
4B	Auxiliary Contact	N/A	024-31814-000	024-31814-000	024-33176-000	N/A	024-31814-000	024-31814-000	024-33176-000
6	Control Relay	024-35526-000	024-35526-000	024-35526-000	024-37045-000	024-35526-000	024-35526-000	024-35526-000	024-37045-000
7	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	024-38978-003	031-00808-000	031-00808-000	031-00808-000	024-38978-003
18	Fuse Block	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000
19	Fuse	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000
23	Control Transformer	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000
28	Ground Bar	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000

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

<b>XX*</b>	Single Point Terminal Block
<b>SD*</b>	Single Point Non-Fused Disconnect Switch
<b>BX*</b>	Single Point Circuit Breaker

**\*Service Note:** Locate the PANEL NUMBER sticker on the enclosure sheet metal above the back panel in the Micro Panel section (Figure 15 on page 38), then refer to the appropriate parts list for that number. Or, identify PIN number positions 16 and 17 on unit identification plate then compare to table at left for power configuration options.

See Figures 15, 16, & 17 starting on page 38.

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

ITEM	DESCRIPTION	QWC3070T-46				QWC3070T-58			
		371-05212-108* XX	371-05209-208* SD	371-05209-308* BX	371-05209-513* MB	371-05212-108* XX	371-05209-228* SD	371-05209-320* BX	371-05209-533* MB
1A	Comp. Contactor (L)	024-35467-000	024-35462-000	024-35462-000	024-37039-000	024-35467-000	024-35462-000	024-35462-000	024-37039-000
	Comp. Contactor (R)		024-35459-000	024-35459-000	024-37040-000		024-35459-000	024-35459-000	024-37040-000
1E	Ground Lug	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34088-000
1F	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	024-38978-003	031-00808-000	031-00808-000	031-00808-000	024-38978-003
2A	Single Point Terminal Block	025-38364-000	N/A	N/A	N/A	025-38364-000	N/A	N/A	N/A
	Single Point Circuit Breaker	N/A	N/A	024-31844-000	N/A	N/A	N/A	024-31842-000	N/A
2B	Single Point NF Disconnect Switch	N/A	024-31888-000	N/A	N/A	N/A	024-31888-000	N/A	N/A
	Lug Kit	N/A	025-34479-000	025-34479-000	025-34478-000	N/A	025-34479-000	025-34478-000	025-34478-000
2C	Ground Lug	025-34085-000	025-34088-000	025-34088-000	025-34088-000	025-34085-000	025-34088-000	025-34455-000	025-34088-000
2L	Handle	N/A	024-31880-000	024-31880-000	024-37050-000	N/A	024-31880-000	024-31880-000	024-37050-000
2M	Shaft (8.86")	N/A	SW-0688	SW-0688	024-31879-000	N/A	SW-0688	SW-0688	024-31879-000
3A	I/O IPU2 Board Kit	331-02550-101	331-02550-101	331-02550-101	031-02550-001	331-02550-101	331-02550-101	331-02550-101	031-02550-001
3Q <sup>S</sup>	Flash Card	031-02755-001	031-02755-001	031-02755-001	031-02755-004	031-02755-001	031-02755-001	031-02755-001	031-02755-004
3S	Switch	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000
3Y	Display	031-01110-000	031-01110-000	031-01110-000	031-02109-000	031-01110-000	031-01110-000	031-01110-000	031-02109-000
4A	Manual Starter (L)	N/A	024-31816-000	024-31816-000	024-37038-000	N/A	024-31816-000	024-31816-000	024-33182-000
	Manual Starter (R)								024-33183-000
4B	Auxiliary Contact (L)	N/A	024-31814-000	024-31814-000	024-33176-000	N/A	024-31814-000	024-31814-000	024-33176-000
	Auxiliary Contact (R)								024-33176-000
6	Control Relay	024-35526-000	024-35526-000	024-35526-000	024-37045-000	024-35526-000	024-35526-000	024-35526-000	024-37045-000
7	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	024-38978-003	031-00808-000	031-00808-000	031-00808-000	024-38978-003
18	Fuse Block	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000
19	Fuse	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000
23	Control Transformer	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000
28	Ground Bar	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000

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

**\*Service Note:** Locate the PANEL NUMBER sticker on the enclosure sheet metal above the back panel in the Micro Panel section (Figure 15 on page 38), then refer to the appropriate parts list for that number. Or, identify PIN number positions 16 and 17 on unit identification plate then compare to table at left for power configuration options.

See Figures 15, 16, & 17 starting on page 38.

XX*	Single Point Terminal Block
SD*	Single Point Non-Fused Disconnect Switch
BX*	Single Point Circuit Breaker

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

ITEM	DESCRIPTION	QWC3080T-17 & QWC3080T-28				QWC3080T-40			
		371-05212-109* XX	371-05209-209* SD	371-05209-325* BX	371-05209-504* MB	371-05212-110* XX	371-05209-210* SD	371-05209-326* BX	371-05209-524* MB
1A	Comp. Contactor (L)	024-35473-000	024-35470-000	024-35470-000	024-34310-000	024-35467-000	024-35462-000	024-35462-000	024-37040-000
	Comp. Contactor (R)								
1E	Ground Lug	025-34088-000	025-34088-000	025-34088-000	025-34088-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000
1F	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	024-38978-003
2A	Single Point Terminal Block	025-38370-000	N/A	N/A	N/A	025-38364-000	N/A	N/A	N/A
	Single Point Circuit Breaker	N/A	N/A	025-34419-000	N/A	N/A	N/A	024-31649-000	N/A
2B	Single Point NF Disconnect Switch	N/A	024-30963-000	N/A	N/A	N/A	024-31888-000	N/A	N/A
	Lug Kit	N/A	025-34418-000	025-34418-000	025-34479-000	N/A	025-34479-000	025-34479-000	025-34478-000
2C	Ground Lug	025-34086-000	025-34085-000	025-34085-000	025-34088-000	025-34085-000	025-34088-000	025-34088-000	025-34088-000
2L	Handle	N/A	024-31880-000	024-31880-000	024-37050-000	N/A	024-31880-000	024-31880-000	024-37050-000
2M	Shaft (8.86")	N/A	SW-0688	SW-0688	024-31879-000	N/A	SW-0688	SW-0688	024-31879-000
3A	I/O IPU2 Board Kit	331-02550-101	331-02550-101	331-02550-101	031-02550-001	331-02550-101	331-02550-101	331-02550-101	031-02550-001
3Q <sup>S</sup>	Flash Card	031-02755-001	031-02755-001	031-02755-001	031-02755-004	031-02755-001	031-02755-001	031-02755-001	031-02755-004
3S	Switch	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000
3Y	Display	031-01110-000	031-01110-000	031-01110-000	031-02109-000	031-01110-000	031-01110-000	031-01110-000	031-02109-000
4A	Manual Starter	N/A	025-34488-000	025-34488-000	024-37807-000	N/A	025-34488-000	025-31816-000	024-37805-000
4B	Auxiliary Contact	N/A	024-31814-000	024-31814-000	024-33176-000	N/A	024-31814-000	024-31814-000	024-33176-000
6	Control Relay	024-35526-000	024-35526-000	024-35526-000	024-37045-000	024-35526-000	024-35526-000	024-35526-000	024-37045-000
7	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	024-38978-003
18	Fuse Block	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000
19	Fuse	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000
23	Control Transformer	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000
28	Ground Bar	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000

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

<b>XX*</b>	Single Point Terminal Block
<b>SD*</b>	Single Point Non-Fused Disconnect Switch
<b>BX*</b>	Single Point Circuit Breaker

**\*Service Note:** Locate the PANEL NUMBER sticker on the enclosure sheet metal above the back panel in the Micro Panel section (Figure 15 on page 38), then refer to the appropriate parts list for that number. Or, identify PIN number positions 16 and 17 on unit identification plate then compare to table at left for power configuration options.

See Figures 15, 16, & 17 starting on page 38.

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

ITEM	DESCRIPTION	QWC3080T-46					QWC3080T-58				
		371-05212-110* XX	371-05209-210* SD	371-05209-327* BX	371-05209-514* MB	371-05212-110* XX	371-05209-221* SD	371-05209-328* BX	371-05209-534* MB		
1A	Comp. Contactor (L)	024-35467-000	024-35462-000	024-35462-000	024-37040-000	024-35467-000	024-35462-000	024-35462-000	024-37040-000		
	Comp. Contactor (R)										
1E	Ground Lug (L)	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000		
	Ground Lug (R)										
1F	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	024-38978-003	031-00808-000	031-00808-000	031-00808-000	024-38978-003		
2A	Single Point Terminal Block	025-38364-000	N/A	N/A	N/A	025-38364-000	N/A	N/A	N/A		
	Single Point Circuit Breaker	N/A	N/A	024-31844-000	N/A	N/A	N/A	024-31842-000	N/A		
2B	Single Point NF Disconnect Switch	N/A	024-31888-000	N/A	N/A	N/A	024-31888-000	N/A	N/A		
	Lug Kit	N/A	025-34479-000	025-34479-000	025-34478-000	N/A	025-34478-000	025-34478-000	025-34478-000		
2C	Ground Lug	025-34085-000	025-34088-000	025-34088-000	025-34088-000	025-34085-000	025-34088-000	025-34455-000	025-34088-000		
2L	Handle	N/A	024-31880-000	024-31880-000	024-37050-000	N/A	024-31880-000	024-31880-000	024-37050-000		
2M	Shaft (8.86")	N/A	SW-0688	SW-0688	024-31879-000	N/A	SW-0688	SW-0688	024-31879-000		
3A	I/O IPU2 Board Kit	331-02550-101	331-02550-101	331-02550-101	031-02550-001	331-02550-101	331-02550-101	331-02550-101	031-02550-001		
3Q <sup>S</sup>	Flash Card	031-02755-001	031-02755-001	031-02755-001	031-02755-004	031-02755-001	031-02755-001	031-02755-001	031-02755-004		
3S	Switch	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000		
3Y	Display	031-01110-000	031-01110-000	031-01110-000	031-02109-000	031-01110-000	031-02749-000	031-01110-000	031-02109-000		
4A	Manual Starter	N/A	025-34488-000	025-31816-000	024-37805-000	N/A	024-31816-000	024-31816-000	024-33183-000		
4B	Auxiliary Contact	N/A	024-31814-000	024-31814-000	024-33176-000	N/A	024-31814-000	024-31814-000	024-33176-000		
6	Control Relay	024-35526-000	024-35526-000	024-35526-000	024-37045-000	024-35526-000	024-35526-000	024-35526-000	024-37045-000		
7	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	024-38978-003	031-00808-000	031-00808-000	031-00808-000	024-38978-003		
18	Fuse Block	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000		
19	Fuse	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000		
23	Control Transformer	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000		
28	Ground Bar	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000		

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

<b>XX*</b>	Single Point Terminal Block
<b>SD*</b>	Single Point Non-Fused Disconnect Switch
<b>BX*</b>	Single Point Circuit Breaker

**\*Service Note:** Locate the PANEL NUMBER sticker on the enclosure sheet metal above the back panel in the Micro Panel section (Figure 15 on page 38), then refer to the appropriate parts list for that number. Or, identify PIN number positions 16 and 17 on unit identification plate then compare to table at left for power configuration options.

See Figures 15, 16, & 17 starting on page 38.

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

ITEM	DESCRIPTION	QWC3090T-17 & QWC3090T-28				QWC3090T-40			
		371-05212-111* XX	371-05209-211* SD	371-05209-335* BX	371-05209-505* MB	371-05212-112* XX	371-05209-229* SD	371-05209-336* BX	371-05209-525* MB
1A	Comp. Contactor (L)	024-34294-000	024-35473-000	024-35473-000	029-23472-000	024-35470-000	024-35462-000	024-37040-000	
	Comp. Contactor (R)	024-23472-000	024-35470-000	024-35470-000	024-34310-000	024-35467-000			
1E	Ground Lug (L)	025-34088-000	025-34088-000	025-34088-000	025-34088-000	025-34088-000	025-34455-000	025-34455-000	
	Ground Lug (R)					025-34455-000			
1F	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	024-38978-003	
2A	Single Point Terminal Block	025-38364-000	N/A	N/A	N/A	025-38364-000	N/A	N/A	
	Single Point Circuit Breaker	N/A	N/A	025-34419-000	N/A	N/A	N/A	024-31649-000	
2B	Single Point NF Disconnect Switch	N/A	024-30963-000	N/A	N/A	N/A	024-31888-000	N/A	
	Lug Kit	N/A	025-34418-000	025-34418-000	025-34479-000	N/A	025-34479-000	025-34478-000	
2C	Ground Lug	025-34085-000	025-34085-000	025-34085-000	025-34088-000	025-34085-000	025-34088-000	025-34088-000	
2L	Handle	N/A	024-31880-000	024-31880-000	024-37050-000	N/A	024-31880-000	024-37050-000	
2M	Shaft (8.86")	N/A	SW-0688	SW-0688	024-31879-000	N/A	SW-0688	024-31879-000	
3A	I/O IPU2 Board Kit	331-02550-101	331-02550-101	331-02550-101	031-02550-001	331-02550-101	331-02550-101	031-02550-001	
3Q <sup>S</sup>	Flash Card	031-02755-001	031-02755-001	031-02755-001	031-02755-004	031-02755-001	031-02755-001	031-02755-004	
3S	Switch	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	
3Y	Display	031-02749-000	031-01110-000	031-01110-000	031-02109-000	031-01110-000	031-01110-000	031-02109-000	
4A	Manual Starter	N/A	025-34488-000	025-34488-000	024-37807-000	N/A	024-31816-000	024-37805-000	
4B	Auxiliary Contact	N/A	024-31814-000	024-31814-000	024-33176-000	N/A	024-31814-000	024-33176-000	
6	Control Relay	024-35526-000	024-35526-000	024-35526-000	024-37045-000	024-35526-000	024-35526-000	024-37045-000	
7	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	024-38978-003	
18	Fuse Block	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	
19	Fuse	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	
23	Control Transformer	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	
28	Ground Bar	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	

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

<b>XX*</b>	Single Point Terminal Block
<b>SD*</b>	Single Point Non-Fused Disconnect Switch
<b>BX*</b>	Single Point Circuit Breaker

**\*Service Note:** Locate the PANEL NUMBER sticker on the enclosure sheet metal above the back panel in the Micro Panel section (Figure 15 on page 38), then refer to the appropriate parts list for that number. Or, identify PIN number positions 16 and 17 on unit identification plate then compare to table at left for power configuration options.

See Figures 15, 16, & 17 starting on page 38.

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

ITEM	DESCRIPTION	QWC3090T-46				QWC3090T-58			
		371-05212-112* XX	371-05209-212* SD	371-05209-337* BX	371-05209-515* MB	371-05212-112* XX	371-05209-222* SD	371-05209-338* BX	371-05209-535* MB
1A	Comp. Contactor (L)	024-35470-000	024-35462-000	024-35462-000	024-37040-000	024-35470-000	024-35462-000	024-35462-000	024-37040-000
	Comp. Contactor (R)	024-35467-000							
1E	Ground Lug (L)	025-34088-000	025-34455-000	025-34455-000	025-34455-000	025-34088-000	025-34455-000	025-34455-000	025-34088-000
	Ground Lug (R)	025-34455-000							
1F	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	024-38978-003	031-00808-000	031-00808-000	031-00808-000	024-38978-003
2A	Single Point Terminal Block	025-38364-000	N/A	N/A	N/A	025-38364-000	N/A	N/A	N/A
	Single Point Circuit Breaker	N/A	N/A	024-31844-000	N/A	N/A	N/A	024-31843-000	N/A
2B	Single Point NF Disconnect Switch	N/A	024-31888-000	N/A	N/A	N/A	024-31888-000	N/A	N/A
	Lug Kit	N/A	025-34479-000	025-34479-000	025-34478-000	N/A	025-34478-000	025-34478-000	025-34478-000
2C	Ground Lug	025-34085-000	025-34088-000	025-34088-000	025-34088-000	025-34085-000	025-34088-000	025-34088-000	025-34088-000
2L	Handle	N/A	024-31880-000	024-31880-000	024-37050-000	N/A	024-31880-000	024-31880-000	024-37050-000
2M	Shaft (8.86")	N/A	SW-0688	SW-0688	024-31879-000	N/A	SW-0688	SW-0688	024-31879-000
3A	I/O IPU2 Board Kit	331-02550-101	331-02550-101	331-02550-101	031-02550-001	331-02550-101	331-02550-101	331-02550-101	031-02550-001
3Qs	Flash Card	031-02755-001	031-02755-001	031-02755-001	031-02755-004	031-02755-001	031-02755-001	031-02755-001	031-02755-004
3S	Switch	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000
3Y	Display	031-01110-000	031-01110-000	031-01110-000	031-02109-000	031-01110-000	031-02749-000	031-01110-000	031-02109-000
4A	Manual Starter	N/A	024-31816-000	024-31816-000	024-37805-000	N/A	024-31816-000	024-31816-000	024-33183-000
4B	Auxiliary Contact	N/A	024-31814-000	024-31814-000	024-33176-000	N/A	024-31814-000	024-31814-000	024-33176-000
6	Control Relay	024-35526-000	024-35526-000	024-35526-000	024-37045-000	024-35526-000	024-35526-000	024-35526-000	024-37045-000
7	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	024-38978-003	031-00808-000	031-00808-000	031-00808-000	024-38978-003
18	Fuse Block	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000
19	Fuse	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000
23	Control Transformer	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000
28	Ground Bar	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000

**S** = Recommended Spare Part

<b>XX*</b>	Single Point Terminal Block
<b>SD*</b>	Single Point Non-Fused Disconnect Switch
<b>BX*</b>	Single Point Circuit Breaker

**\*Service Note:** Locate the PANEL NUMBER sticker on the enclosure sheet metal above the back panel in the Micro Panel section (Figure 15 on page 38), then refer to the appropriate parts list for that number. Or, identify PIN number positions 16 and 17 on unit identification plate then compare to table at left for power configuration options.

See Figures 15, 16, & 17 starting on page 38.

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

ITEM	DESCRIPTION	QWC3095T-17 & QWC3095T-28				QWC3095T-40			
		371-05213-101* XX	371-05210-201* SD	371-05210-301* BX	371-05210-501* MB	371-05213-102* XX	371-05210-202* SD	371-05210-302* BX	371-05210-521* MB
1A	Comp. Contactor (L)	024-35470-000	024-35467-000	024-35467-000	024-37041-000	024-35467-000	024-35459-000	024-35459-000	024-37039-000
	Comp. Contactor (R)								
1E	Ground Lug	025-34088-000	025-34455-000	025-34455-000	025-34088-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000
1F	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	024-38978-003	031-00808-000	031-00808-000	031-00808-000	024-38978-003
2A	Single Point Terminal Block	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Single Point Circuit Breaker	N/A	N/A	025-34424-000	N/A	N/A	N/A	024-37002-000	N/A
2B	Single Point NF Disconnect Switch	024-25564-000	024-25564-000	N/A	N/A	N/A	024-30963-000	N/A	N/A
	Lug Kit	025-34481-000	025-34481-000	025-34481-000	025-40824-000	N/A	025-34418-000	025-34480-000	025-34478-000
2C	Ground Lug	025-34086-000	025-34086-000	025-34086-000	025-34088-000	025-34086-000	025-34085-000	025-34089-000	025-34088-000
2L	Handle	024-31880-000	024-31880-000	024-31880-000	024-31880-000	024-31880-000	024-31880-000	024-31880-000	024-37050-000
2M	Shaft (8.86")	SW-0688	SW-0688	SW-0688	024-31879-000	SW-0688	SW-0688	SW-0688	024-31879-000
3A	I/O IPU2 Board Kit	331-02550-101	331-02550-101	331-02550-101	031-02550-001	331-02550-101	331-02550-101	331-02550-101	031-02550-001
3Qs	Flash Card	031-02755-001	031-02755-001	031-02755-001	031-02755-004	031-02755-001	031-02755-001	031-02755-001	031-02755-004
3S	Switch	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000
3Y	Display	031-01110-000	031-01110-000	031-01110-000	031-02109-000	031-01110-000	031-01110-000	031-01110-000	031-02109-000
4A	Manual Starter	025-34488-000	025-34488-000	025-34488-000	024-37807-000	N/A	024-31816-000	024-31816-000	024-37805-000
4B	Auxiliary Contact	024-31814-000	024-31814-000	024-31814-000	024-33176-000	N/A	024-31814-000	024-31814-000	024-33176-000
6	Control Relay	024-35526-000	024-35526-000	024-35526-000	024-37045-000	024-35526-000	024-35526-000	024-35526-000	024-37045-000
7	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	024-38978-003	031-00808-000	031-00808-000	031-00808-000	024-38978-003
18	Fuse Block	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000
19	Fuse	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000
23	Control Transformer	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000
28	Ground Bar	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000

S = Recommended Spare Part

<b>XX*</b>	Single Point Terminal Block
<b>SD*</b>	Single Point Non-Fused Disconnect Switch
<b>BX*</b>	Single Point Circuit Breaker

**\*Service Note:** Locate the PANEL NUMBER sticker on the enclosure sheet metal above the back panel in the Micro Panel section (Figure 15 on page 38), then refer to the appropriate parts list for that number. Or, identify PIN number positions 16 and 17 on unit identification plate then compare to table at left for power configuration options.

See Figures 15, 16, & 17 starting on page 38.

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

ITEM	DESCRIPTION	QWC-3095T-46					QWC-3095T-58				
		371-05213-102* XX	371-05210-202* SD	371-05210-303* BX	371-05210-511* MB	371-05213-102* XX	371-05210-234* SD	371-05210-304* BX	371-05210-531* BX		
1A	Comp. Contactor (L)	024-35467-000	024-35459-000	024-35459-000	024-37039-000	024-35467-000	024-35459-000	024-35459-000	024-37039-000		
	Comp. Contactor (R)										
1E	Ground Lug	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000		
1F	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	024-38978-003	031-00808-000	031-00808-000	031-00808-000	024-38978-003		
2A	Single Point Terminal Block	025-38370-000	N/A	N/A	N/A	025-38370-000	N/A	N/A	N/A		
	Single Point Circuit Breaker	N/A	N/A	024-31649-000	N/A	N/A	N/A	024-31844-000	N/A		
2B	Single Point NF Disconnect Switch	N/A	024-30963-000	N/A	N/A	N/A	024-31888-000	N/A	N/A		
	Lug Kit	N/A	025-34418-000	025-34479-000	025-34478-000	N/A	025-34479-000	025-34479-000	025-34478-000		
2C	Ground Lug	025-34086-000	025-34085-000	025-34088-000	025-34088-000	025-34086-000	025-34088-000	025-34088-000	025-34088-000		
2L	Handle	N/A	024-31880-000	024-31880-000	024-37050-000	N/A	024-31880-000	024-31880-000	024-37050-000		
2M	Shaft (8.86")	N/A	SW-0688	SW-0688	024-31879-000	N/A	SW-0688	SW-0688	024-31879-000		
3A	I/O IPU2 Board Kit	331-02550-101	331-02550-101	331-02550-101	031-02550-001	331-02550-101	331-02550-101	331-02550-101	031-02550-001		
3Q <sup>S</sup>	Flash Card	031-02755-001	031-02755-001	031-02755-001	031-02755-004	031-02755-001	031-02755-001	031-02755-001	031-02755-004		
3S	Switch	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000		
3Y	Display	031-01110-000	031-01110-000	031-01110-000	031-02109-000	031-01110-000	031-01110-000	031-01110-000	031-02109-000		
4A	Manual Starter	N/A	024-31816-000	024-31816-000	024-33183-000	N/A	024-33172-000	024-33172-000	024-33182-000		
4B	Auxiliary Contact	N/A	024-31814-000	024-31814-000	024-33176-000	N/A	024-33176-000	024-33176-000	024-33176-000		
6	Control Relay	024-35526-000	024-35526-000	024-35526-000	024-37045-000	024-35526-000	024-35526-000	024-35526-000	024-37045-000		
7	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	024-38978-003	031-00808-000	031-00808-000	031-00808-000	024-38978-003		
18	Fuse Block	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000		
19	Fuse	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000		
23	Control Transformer	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000		
28	Ground Bar	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000		

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

<b>XX*</b>	Single Point Terminal Block
<b>SD*</b>	Single Point Non-Fused Disconnect Switch
<b>BX*</b>	Single Point Circuit Breaker

**\*Service Note:** Locate the PANEL NUMBER sticker on the enclosure sheet metal above the back panel in the Micro Panel section (Figure 15 on page 38), then refer to the appropriate parts list for that number. Or, identify PIN number positions 16 and 17 on unit identification plate then compare to table at left for power configuration options.

See Figures 15, 16, & 17 starting on page 38.

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

ITEM	DESCRIPTION	QWC3100T-17 & QWC3100T-28				QWC3100T-40			
		371-05212-113* XX	371-05209-213* SD	371-05209-341* BX	371-05209-506* MB	371-05212-114* XX	371-05209-230* SD	371-05209-342* BX	371-05209-526* MB
1A	Comp. Contactor (L)	024-34294-000	024-35473-000	024-35473-000	029-23472-000	024-35470-000	024-35462-000	024-35462-000	024-37040-000
	Comp. Contactor (R)								
1E	Ground Lug	025-34088-000	025-34088-000	025-34088-000	025-34088-000	025-34088-000	025-34455-000	025-34455-000	025-34455-000
1F	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	024-38978-003
2A	Single Point Terminal Block	025-38364-000	N/A	N/A	N/A	025-38370-000	N/A	N/A	N/A
	Single Point Circuit Breaker	N/A	N/A	025-34425-000	N/A	N/A	N/A	024-37002-000	N/A
2B	Single Point NF Disconnect Switch	N/A	024-25564-000	N/A	N/A	N/A	024-30963-000	N/A	N/A
	Lug Kit	N/A	025-34481-000	025-34481-000	025-40824-000	N/A	025-34418-000	025-34480-000	025-34478-000
2C	Ground Lug	025-34085-000	025-34086-000	025-34086-000	025-34088-000	025-34086-000	025-34085-000	025-34089-000	025-34088-000
2L	Handle	N/A	024-31880-000	024-31880-000	024-37050-000	N/A	024-31880-000	024-31880-000	024-37050-000
2M	Shaft (8.86")	N/A	SW-0688	SW-0688	024-31879-000	N/A	SW-0688	SW-0688	024-31879-000
3A	I/O IPU2 Board Kit	331-02550-101	331-02550-101	331-02550-101	031-02550-001	331-02550-101	331-02550-101	331-02550-101	031-02550-001
3Qs	Flash Card	031-02755-001	031-02755-001	031-02755-001	031-02755-004	031-02755-001	031-02755-001	031-02755-001	031-02755-004
3S	Switch	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000
3Y	Display	031-02749-000	031-01110-000	031-01110-000	031-02109-000	031-01110-000	031-01110-000	031-01110-000	031-02109-000
4A	Manual Starter	N/A	025-34488-000	025-34488-000	024-37807-000	N/A	024-31816-000	024-31816-000	024-37806-000
4B	Auxiliary Contact	N/A	024-31814-000	024-31814-000	024-33176-000	N/A	024-31814-000	024-31814-000	024-33176-000
6	Control Relay	024-35526-000	024-35526-000	024-35526-000	024-37045-000	024-35526-000	024-35526-000	024-35526-000	024-37045-000
1q	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	024-38978-003
18	Fuse Block	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000
19	Fuse	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000
23	Control Transformer	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000
28	Ground Bar	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000

S = Recommended Spare Part

<b>XX*</b>	Single Point Terminal Block
<b>SD*</b>	Single Point Non-Fused Disconnect Switch
<b>BX*</b>	Single Point Circuit Breaker

**\*Service Note:** Locate the PANEL NUMBER sticker on the enclosure sheet metal above the back panel in the Micro Panel section (Figure 15 on page 38), then refer to the appropriate parts list for that number. Or, identify PIN number positions 16 and 17 on unit identification plate then compare to table at left for power configuration options.

See Figures 15, 16, & 17 starting on page 38.

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

ITEM	DESCRIPTION	QWC3100T-46				QWC3100T-58			
		371-05212-114* XX	371-05209-214* SD	371-05209-343* BX	371-05209-516* MB	371-05212-114* XX	371-05209-223* SD	371-05209-345* BX	371-05209-536* MB
1A	Comp. Contactor (L) Comp. Contactor (R)	024-35470-000	024-35462-000	024-35462-000	024-37040-000	024-35470-000	024-35462-000	024-35462-000	024-37040-000
1E	Ground Lug	025-34088-000	025-34455-000	025-34455-000	025-34455-000	025-34088-000	025-34088-000	025-34088-000	025-34455-000
1F	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	024-38978-003	031-00808-000	031-00808-000	031-00808-000	024-38978-003
	Single Point Terminal Block	025-38370-000	N/A	N/A	N/A	025-38370-000	N/A	N/A	N/A
2A	Single Point Circuit Breaker	N/A	N/A	024-31844-000	N/A	N/A	N/A	024-31843-000	N/A
	Single Point NF Disconnect Switch	N/A	024-31888-000	N/A	N/A	N/A	024-31888-000	N/A	N/A
2B	Lug Kit	N/A	025-34479-000	025-34479-000	025-34478-000	N/A	025-34478-000	025-34478-000	025-34478-000
2C	Ground Lug	025-34086-000	025-34088-000	025-34088-000	025-34088-000	025-34086-000	025-34088-000	025-34088-000	025-34088-000
2L	Handle	N/A	024-31880-000	024-31880-000	024-37050-000	N/A	024-31880-000	024-31880-000	024-37050-000
2M	Shaft (8.86")	N/A	SW-0688	SW-0688	024-31879-000	N/A	SW-0688	SW-0688	024-31879-000
3A	I/O IPU2 Board Kit	331-02550-101	331-02550-101	331-02550-101	031-02550-001	331-02550-101	331-02550-101	331-02550-101	031-02550-001
3Qs	Flash Card	031-02755-001	031-02755-001	031-02755-001	031-02755-004	031-02755-001	031-02755-001	031-02755-001	031-02755-004
3S	Switch	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000
3Y	Display	031-01110-000	031-01110-000	031-01110-000	031-02109-000	031-01110-000	031-02749-000	031-01110-000	031-02109-000
4A	Manual Starter	N/A	024-31816-000	024-31816-000	024-37805-000	N/A	024-31816-000	024-31816-000	024-33183-000
4B	Auxiliary Contact	N/A	024-31814-000	024-31814-000	024-33176-000	N/A	024-31814-000	024-31814-000	024-33176-000
6	Control Relay	024-35526-000	024-35526-000	024-35526-000	024-37045-000	024-35526-000	024-35526-000	024-35526-000	024-37045-000
7	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	024-38978-003	031-00808-000	031-00808-000	031-00808-000	024-38978-003
18	Fuse Block	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000
19	Fuse	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000
23	Control Transformer	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000
28	Ground Bar	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000

**S** = Recommended Spare Part

<b>XX*</b>	Single Point Terminal Block
<b>SD*</b>	Single Point Non-Fused Disconnect Switch
<b>BX*</b>	Single Point Circuit Breaker

**\*Service Note:** Locate the PANEL NUMBER sticker on the enclosure sheet metal above the back panel in the Micro Panel section (Figure 15 on page 38), then refer to the appropriate parts list for that number. Or, identify PIN number positions 16 and 17 on unit identification plate then compare to table at left for power configuration options.  
See Figures 15, 16, & 17 starting on page 38.

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

ITEM	DESCRIPTION	QWC3115T-17 & QWC3115T-28				QWC3115T-40			
		371-05212-115* XX	371-05209-215* SD	371-05209-351* BX	371-05974-501* MB	371-05212-116* XX	371-05209-231* SD	371-05209-352* BX	371-05209-527* MB
1A	Comp. Contactor (L)	024-34294-000	029-23472-000	029-23472-000	024-37040-000	024-35473-000	024-35467-000	024-35467-000	024-37040-000
	Comp. Contactor (R)		024-35473-000	024-35473-000		024-35470-000	024-35462-000	024-35462-000	024-37041-000
1E	Ground Lug	025-34088-000	025-34088-000	025-34088-000	025-34455-000	025-34088-000	025-34455-000	025-34455-000	025-34455-000
1F	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	024-38978-003	031-00808-000	031-00808-000	031-00808-000	024-38978-003
2A	Single Point Terminal Block	025-38364-000	N/A	N/A	N/A	025-38370-000	N/A	N/A	N/A
	Single Point Circuit Breaker	N/A	N/A	024-35976-000	N/A	N/A	N/A	024-31851-000	N/A
2B	Single Point NF Disconnect Switch	N/A	024-25564-000	N/A	N/A	N/A	024-30963-000	N/A	N/A
	Lug Kit	N/A	025-34481-000	025-40825-000	025-34478-000	N/A	025-34418-000	025-34480-000	025-34478-000
2C	Ground Lug	025-34085-000	025-34086-000	025-34086-000	025-34088-000	025-34086-000	025-34085-000	025-34089-000	025-34088-000
2L	Handle	N/A	024-31880-000	024-31880-000	024-37050-000	N/A	024-31880-000	024-31880-000	024-37050-000
2M	Shaft (8.86")	N/A	SW-0688	SW-0688	024-31879-000	N/A	SW-0688	SW-0688	024-31879-000
3A	I/O IPU2 Board Kit	331-02550-101	331-02550-101	331-02550-101	031-02550-001	331-02550-101	331-02550-101	331-02550-101	031-02550-001
3Q <sup>S</sup>	Flash Card	031-02755-001	031-02755-001	031-02755-001	031-02755-004	031-02755-001	031-02755-001	031-02755-001	031-02755-004
3S	Switch	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000
3Y	Display	031-02749-000	031-02749-000	031-02749-000	031-02109-000	031-01110-000	031-01110-000	031-01110-000	031-02109-000
4A	Manual Starter (L)	N/A	024-34385-000	024-34385-000	024-37806-000	N/A	025-34488-000	025-34488-000	024-37806-000
	Manual Starter (R)		025-34488-000	025-34488-000			024-31816-000	024-31816-000	024-37807-000
4B	Auxiliary Contact (L)	N/A	024-34384-000	024-34384-000	024-33176-000	N/A	024-31814-000	024-31814-000	024-33176-000
	Auxiliary Contact (R)		024-31814-000	024-31814-000					
6	Control Relay	024-35526-000	024-35526-000	024-35526-000	024-37045-000	024-35526-000	024-35526-000	024-35526-000	024-37045-000
7	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	024-38978-003	031-00808-000	031-00808-000	031-00808-000	024-38978-003
18	Fuse Block	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000
19	Fuse	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000
23	Control Transformer	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000
28	Ground Bar	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000

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

<b>XX*</b>	Single Point Terminal Block
<b>SD*</b>	Single Point Non-Fused Disconnect Switch
<b>BX*</b>	Single Point Circuit Breaker

**\*Service Note:** Locate the PANEL NUMBER sticker on the enclosure sheet metal above the back panel in the Micro Panel section (Figure 15 on page 38), then refer to the appropriate parts list for that number. Or, identify PIN number positions 16 and 17 on unit identification plate then compare to table at left for power configuration options.

See Figures 15, 16, & 17 starting on page 38.

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

Item	Description	QWC3115T-46					QWC3115T-58				
		371-05212-116* XX	371-05209-216* SD	371-05209-353* BX	371-05209-517* MB	371-05212-116* XX	371-05209-232* SD	371-05209-354* BX	371-05209-537* MB		
<b>1A</b>	Comp. Contactor (L)	024-35473-000	024-35467-000	024-35467-000	024-37040-000	024-35473-000	024-35467-000	024-35467-000	024-37040-000		
	Comp. Contactor (R)	024-35470-000	024-35462-000	024-35462-000	024-37041-000	024-35470-000	024-35462-000	024-35462-000	024-37041-000		
<b>1E</b>	Ground Lug	025-34088-000	025-34088-000	025-34088-000	025-34455-000	025-34088-000	025-34088-000	025-34088-000	025-34455-000		
<b>1F</b>	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	024-38978-003	031-00808-000	031-00808-000	031-00808-000	024-38978-003		
	Single Point Terminal Block	025-38370-000	N/A	N/A	N/A	025-38370-000	N/A	N/A	N/A		
<b>2A</b>	Single Point Circuit Breaker	N/A	N/A	024-31851-000	N/A	N/A	N/A	024-31844-000	N/A		
	Single Point NF Disconnect Switch	N/A	024-30963-000	N/A	N/A	N/A	024-31888-000	N/A	N/A		
<b>2B</b>	Lug Kit	N/A	025-34418-000	025-34480-000	025-34478-000	N/A	025-34479-000	025-34479-000	025-34478-000		
<b>2C</b>	Ground Lug	025-34086-000	025-34085-000	025-34089-000	025-34088-000	025-34086-000	025-34088-000	025-34088-000	025-34088-000		
<b>2L</b>	Handle	N/A	024-31880-000	024-31880-000	024-37050-000	N/A	024-31880-000	024-31880-000	024-37050-000		
<b>2M</b>	Shaft (8.86")	N/A	SW-0688	SW-0688	024-31879-000	N/A	SW-0688	SW-0688	024-31879-000		
<b>3A</b>	I/O IPU2 Board Kit	331-02550-101	331-02550-101	331-02550-101	031-02550-001	331-02550-101	331-02550-101	331-02550-101	031-02550-001		
<b>3Q<sup>S</sup></b>	Flash Card	031-02755-001	031-02755-001	031-02755-001	031-02755-004	031-02755-001	031-02755-001	031-02755-001	031-02755-004		
<b>3S</b>	Switch	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000		
<b>3Y</b>	Display	031-01110-000	031-01110-000	031-01110-000	031-02109-000	031-01110-000	031-01110-000	031-01110-000	031-02109-000		
<b>4A</b>	Manual Starter	N/A	025-34488-000	025-34488-000	024-37805-000	N/A	024-31816-000	024-31816-000	024-33183-000		
			024-31816-000	024-31816-000	024-37807-000						
<b>4B</b>	Auxiliary Contact	N/A	024-31814-000	024-31814-000	024-33176-000	N/A	024-31814-000	024-31814-000	024-33176-000		
<b>6</b>	Control Relay	024-35526-000	024-35526-000	024-35526-000	024-37045-000	024-35526-000	024-35526-000	024-35526-000	024-37045-000		
<b>7</b>	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	024-38978-003	031-00808-000	031-00808-000	031-00808-000	024-38978-003		
<b>18</b>	Fuse Block	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000		
<b>19</b>	Fuse	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000		
<b>23</b>	Control Transformer	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000		
<b>28</b>	Ground Bar	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000		

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

<b>XX*</b>	Single Point Terminal Block
<b>SD*</b>	Single Point Non-Fused Disconnect Switch
<b>BX*</b>	Single Point Circuit Breaker

**\*Service Note:** Locate the PANEL NUMBER sticker on the enclosure sheet metal above the back panel in the Micro Panel section (Figure 15 on page 38), then refer to the appropriate parts list for that number. Or, identify PIN number positions 16 and 17 on unit identification plate then compare to table at left for power configuration options.

See Figures 15, 16, & 17 starting on page 38.

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

ITEM	DESCRIPTION	QWC3130THE-18 & QWC3130THE-28			
		371-05975-101* XX	371-05974-202* SD	371-05974-302* BX	371-05974-502* MB
1A	Comp. Contactor (L)	029-23472-000	024-34310-000	029-23472-000	029-23472-000
	Comp. Contactor (R)	024-34294-000		024-34310-000	024-34310-000
1E	Ground Lug	025-34088-000	025-34088-000	025-34088-000	025-34088-000
1F	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	031-00808-000
2A	Single Point Terminal Block	025-38370-000	N/A	N/A	N/A
	Single Point Circuit Breaker	N/A	N/A	024-35976-000	024-35974-000
	Single Point NF Disconnect Switch	N/A	024-30963-000	N/A	N/A
	Lug Kit	N/A	025-40825-000	025-40825-000	025-40824-000
2B	Lug Kit	N/A	025-40825-000	025-40825-000	025-40824-000
2C	Ground Lug	025-34088-000	025-34088-000	025-34088-000	025-34088-000
2L	Handle	N/A	024-31880-000	024-31880-000	024-31880-000
2M	Shaft (8.86")	N/A	024-31879-000	024-31879-000	024-31879-000
3A	I/O IPU2 Board Kit	031-02550-001	031-02550-001	031-02550-001	031-02550-001
3Q <sup>S</sup>	Flash Card	031-02755-004	031-02755-004	031-02755-004	031-02755-004
3S	Switch	024-25517-000	024-25517-000	024-25517-000	024-25517-000
3Y	Display	031-02109-000	031-02109-000	031-02109-000	031-02109-000
4A	Manual Starter	N/A	024-37807-000	024-37807-000	024-37807-000
4B	Auxiliary Contact	N/A	024-33176-000	024-33176-000	024-33176-000
			024-34384-000	024-34384-000	024-34384-000
6	Control Relay	024-37045-000	024-37045-000	024-37045-000	024-37045-000
7	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	031-00808-000
18	Fuse Block	025-34484-000	025-34484-000	025-34484-000	025-34484-000
19	Fuse	025-34435-000	025-34435-000	025-34435-000	025-34435-000
23	Control Transformer	025-37679-000	025-37679-000	025-37679-000	025-37679-000
28	Ground Bar	025-35685-000	025-35685-000	025-35685-000	025-35685-000

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

<b>XX*</b>	Single Point Terminal Block
<b>SD*</b>	Single Point Non-Fused Disconnect Switch
<b>BX*</b>	Single Point Circuit Breaker

**\*Service Note:** Locate the PANEL NUMBER sticker on the enclosure sheet metal above the back panel in the Micro Panel section (Figure 15 on page 38), then refer to the appropriate parts list for that number. Or, identify PIN number positions 16 and 17 on unit identification plate then compare to table at left for power configuration options.

See Figures 15, 16, & 17 starting on page 38.

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

ITEM	DESCRIPTION	QWC3130THE-40				QWC3130THE-46			
		371-05975-102* XX	371-05974-203* SD	371-05974-303* BX	371-05974-503* MB	371-05975-103* XX	371-05974-204* SD	371-05974-304* BX	371-05974-504* MB
<b>1A</b>	Comp. Contactor (L)	024-37041-000	024-37039-000	024-37039-000	024-37039-000	024-37040-000	024-37039-000	024-37039-000	024-37039-000
	Comp. Contactor (R)	029-23472-000	024-37041-000	024-37041-000	024-37041-000	024-34310-000	024-37041-000	024-37041-000	024-37041-000
<b>1E</b>	Ground Lug	025-34088-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000
<b>1F</b>	Surge Suppressor	024-38978-003	024-38978-003	024-38978-003	024-38978-003	024-38978-003	024-38978-003	024-38978-003	024-38978-003
	Single Point Terminal Block	N/A	N/A	N/A	N/A	025-38370-000	N/A	N/A	N/A
<b>2A</b>	Single Point Circuit Breaker	N/A	N/A	024-35974-000	024-37022-000	N/A	N/A	024-35974-000	024-37022-000
	Single Point NF Disconnect Switch	N/A	024-30963-000	N/A	N/A	N/A	N/A	N/A	N/A
<b>2B</b>	Lug Kit	N/A	025-40824-000	025-40824-000	025-34478-000	N/A	025-40824-000	025-40824-000	025-34478-000
<b>2C</b>	Ground Lug	025-34088-000	025-34088-000	025-34088-000	025-34088-000	025-34088-000	025-34088-000	025-34088-000	025-34088-000
<b>2L</b>	Handle	N/A	024-31880-000	024-31880-000	024-37050-000	N/A	024-31880-000	024-31880-000	024-37050-000
<b>2M</b>	Shaft (8.86")	N/A	024-31879-000	024-31879-000	024-31879-000	N/A	024-31879-000	024-31879-000	024-31879-000
<b>3A</b>	I/O IPU2 Board Kit	031-02550-001	031-02550-001	031-02550-001	031-02550-001	031-02550-001	031-02550-001	031-02550-001	031-02550-001
<b>3Q<sup>S</sup></b>	Flash Card	031-02755-004	031-02755-004	031-02755-004	031-02755-004	031-02755-004	031-02755-004	031-02755-004	031-02755-004
<b>3S</b>	Switch	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000
<b>3Y</b>	Display	031-02109-000	031-02109-000	031-02109-000	031-02109-000	031-02109-000	031-02109-000	031-02109-000	031-02109-000
<b>4A</b>	Manual Starter	N/A	024-37805-000	024-37805-000	024-37805-000	N/A	024-37806-000	024-37806-000	024-37806-000
			024-37807-000	024-37807-000	024-37807-000				
<b>4B</b>	Auxiliary Contact	N/A	024-33176-000	024-33176-000	024-33176-000	N/A	024-33176-000	024-33176-000	024-33176-000
<b>6</b>	Control Relay	024-37045-000	024-37045-000	024-37045-000	024-37045-000	024-37045-000	024-37045-000	024-37045-000	024-37045-000
<b>7</b>	Surge Suppressor	024-38978-003	024-38978-003	024-38978-003	024-38978-003	031-00808-000	024-38978-003	024-38978-003	024-38978-003
<b>18</b>	Fuse Block	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000
<b>19</b>	Fuse	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000
<b>23</b>	Control Transformer	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000
<b>28</b>	Ground Bar	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000

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

<b>XX*</b>	Single Point Terminal Block
<b>SD*</b>	Single Point Non-Fused Disconnect Switch
<b>BX*</b>	Single Point Circuit Breaker

**\*Service Note:** Locate the PANEL NUMBER sticker on the enclosure sheet metal above the back panel in the Micro Panel section (Figure 15 on page 38), then refer to the appropriate parts list for that number. Or, identify PIN number positions 16 and 17 on unit identification plate then compare to table at left for power configuration options.

See Figures 15, 16, & 17 starting on page 38.

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

ITEM	DESCRIPTION	QWC3130THE-58				QWC3130TSE-17 & QWC3130TSE-28			
		371-05975-104* XX	371-05974-205* SD	371-05974-305* BX	371-05974-505* MB	371-05212-117* XX	371-05209-217* SD	371-05209-361* BX	371-05209-508* MB
1A	Comp. Contactor (L)	024-37039-000	024-37040-000	024-37040-000	024-37040-000	024-34294-000	029-23472-000	029-23472-000	029-23472-000
	Comp. Contactor (R)	024-34310-000							
1E	Ground Lug	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34088-000	025-34088-000	025-34088-000	025-34088-000
1F	Surge Suppressor	024-38978-003	024-38978-003	024-38978-003	024-38978-003	031-00808-000	031-00808-000	031-00808-000	031-00808-000
	Single Point Terminal Block	025-38364-000	N/A	N/A	N/A	025-38364-000	N/A	N/A	N/A
2A	Circuit Breaker	N/A	N/A	024-37024-000	024-37019-000 024-37020-000	N/A	N/A	024-35976-000	024-35974-000
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2B	Lug Kit	N/A	025-34480-000	025-34479-000	025-34478-000	N/A	025-34481-000	025-40825-000	025-40824-000
2C	Ground Lug	025-34088-000	025-34088-000	025-34088-000	025-34088-000	025-34085-000	025-34086-000	025-34086-000	025-34088-000
2L	Handle	N/A	024-37050-000	024-37050-000	024-37050-000	N/A	024-31880-000	024-31880-000	024-31880-000
2M	Shaft (8.86")	N/A	024-37047-000	024-31879-000	024-31879-000	N/A	SW-0688	SW-0688	024-31879-000
3A	I/O IPU2 Board Kit	031-02550-001	031-02550-001	031-02550-001	031-02550-001	331-02550-101	331-02550-101	331-02550-101	031-02550-001
3Qs	Flash Card	031-02755-004	031-02755-004	031-02755-004	031-02755-004	031-02755-001	031-02755-001	031-02755-001	031-02755-004
3S	Switch	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000
3Y	Display	031-02109-000	031-02109-000	031-02109-000	031-02109-000	031-02749-000	031-02749-000	031-02749-000	031-02109-000
4A	Manual Starter	N/A	024-37037-000	024-37037-000	024-37037-000	N/A	024-34385-000	024-34385-000	024-34385-000
			024-37805-000	024-37805-000	024-37805-000				
4B	Auxiliary Contact	N/A	024-33176-000	024-33176-000	024-33176-000	N/A	024-34384-000	024-34384-000	024-34384-000
6	Control Relay	024-37045-000	024-37045-000	024-37045-000	024-37045-000	024-35526-000	024-35526-000	024-35526-000	024-37045-000
7	Surge Suppressor	024-38978-003	024-38978-003	024-38978-003	024-38978-003	031-00808-000	031-00808-000	031-00808-000	031-00808-000
18	Fuse Block	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000
19	Fuse	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000
23	Control Transformer	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000
28	Ground Bar	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000

S = Recommended Spare Part

XX*	Single Point Terminal Block
SD*	Single Point Non-Fused Disconnect Switch
BX*	Single Point Circuit Breaker

**\*Service Note:** Locate the PANEL NUMBER sticker on the enclosure sheet metal above the back panel in the Micro Panel section (Figure 15 on page 38), then refer to the appropriate parts list for that number. Or, identify PIN number positions 16 and 17 on unit identification plate then compare to table at left for power configuration options.

See Figures 15, 16, & 17 starting on page 38.

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

ITEM	DESCRIPTION	QWC3130TSE-40					QWC3130TSE-46				
		371-05212-120* XX	371-05209-218* SD	371-05209-362* BX	371-05209-528* MB	371-05212-118* XX	371-05209-218* SD	371-05209-363* BX	371-05209-518* MB		
1A	Comp. Contactor (L)	029-23472-000	024-35467-000	024-35467-000	024-37041-000	024-35473-000	024-35467-000	024-37041-000			
	Comp. Contactor (R)										
1E	Ground Lug	025-34088-000	025-34455-000	025-34455-000	025-34088-000	025-34088-000	025-34455-000	025-34088-000			
1F	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	024-38978-003	031-00808-000	031-00808-000	024-38978-003			
	Single Point Terminal Block	025-38370-000	N/A	N/A	N/A	025-38370-000	N/A	N/A			
2A	Single Point Circuit Breaker	N/A	N/A	024-31819-000	024-37023-000	N/A	N/A	024-37022-000			
	Single Point NF Disconnect Switch	N/A	024-30963-000	N/A	N/A	N/A	024-30963-000	N/A			
2B	Lug Kit	N/A	025-34418-000	025-34480-000	025-34479-000	N/A	025-34418-000	025-34478-000			
2C	Ground Lug	025-34088-000	025-34085-000	025-34089-000	025-34088-000	025-34086-000	025-34085-000	025-34088-000			
2L	Handle	N/A	024-31880-000	024-31880-000	024-37050-000	N/A	024-31880-000	024-37050-000			
2M	Shaft (8.86")	N/A	SW-0688	SW-0688	024-31879-000	N/A	SW-0688	024-31879-000			
3A	I/O IPU2 Board Kit	031-02550-001	331-02550-101	331-02550-101	031-02550-001	331-02550-101	331-02550-101	031-02550-001			
3Qs	Flash Card	031-02755-004	031-02755-001	031-02755-001	031-02755-004	031-02755-001	031-02755-001	031-02755-004			
3S	Switch	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000			
3Y	Display	031-02109-000	031-01110-000	031-01110-000	031-02109-000	031-01110-000	031-01110-000	031-02109-000			
4A	Manual Starter	N/A	025-34488-000	025-34488-000	024-37807-000	N/A	025-34488-000	024-37807-000			
4B	Auxiliary Contact	N/A	024-31814-000	024-31814-000	024-33176-000	N/A	024-31814-000	024-33176-000			
6	Control Relay	024-37045-000	024-35526-000	024-35526-000	024-37045-000	024-35526-000	024-35526-000	024-37045-000			
7	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	024-38978-003	031-00808-000	031-00808-000	024-38978-003			
18	Fuse Block	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000			
19	Fuse	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000			
23	Control Transformer	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000			
28	Ground Bar	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000			

S = Recommended Spare Part

<b>XX*</b>	Single Point Terminal Block
<b>SD*</b>	Single Point Non-Fused Disconnect Switch
<b>BX*</b>	Single Point Circuit Breaker

**\*Service Note:** Locate the PANEL NUMBER sticker on the enclosure sheet metal above the back panel in the Micro Panel section (Figure 15 on page 38), then refer to the appropriate parts list for that number. Or, identify PIN number positions 16 and 17 on unit identification plate then compare to table at left for power configuration options.

See Figures 15, 16, & 17 starting on page 38.

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

ITEM	DESCRIPTION	QWC3130TSE-58			
		371-05212-118* XX	371-05209-233* SD	371-05209-364* BX	371-05209-538* MB
1A	Comp. Contactor (L)	024-35473-000	024-35467-000	024-35467-000	024-37041-000
	Comp. Contactor (R)				
1E	Ground Lug	025-34088-000	025-34455-000	025-34455-000	025-34088-000
1F	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	024-38978-003
2A	Single Point Terminal Block	025-38370-000	N/A	N/A	N/A
	Single Point Circuit Breaker	N/A	N/A	024-31649-000	024-37021-000
2B	Single Point NF Disconnect Switch	N/A	024-31888-000	N/A	N/A
	Lug Kit	N/A	025-34479-000	025-34479-000	025-34478-000
2C	Ground Lug	025-34086-000	025-34088-000	025-34088-000	025-34088-000
2L	Handle	N/A	024-31880-000	024-31880-000	024-37050-000
2M	Shaft (8.86")	N/A	SW-0688	SW-0688	024-31879-000
3A	I/O IPU2 Board Kit	331-02550-101	331-02550-101	331-02550-101	031-02550-001
3Q <sup>S</sup>	Flash Card	031-02755-001	031-02755-001	031-02755-001	031-02755-004
3S	Switch	024-25517-000	024-25517-000	024-25517-000	024-25517-000
3Y	Display	031-01110-000	031-01110-000	031-01110-000	031-02109-000
4A	Manual Starter	N/A	024-31816-000	024-31816-000	024-37806-000
4B	Auxiliary Contact	N/A	024-31814-000	024-31814-000	024-37806-000
6	Control Relay	024-35526-000	024-35526-000	024-35526-000	024-37045-000
7	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	024-38978-003
18	Fuse Block	025-34484-000	025-34484-000	025-34484-000	025-34484-000
19	Fuse	025-34435-000	025-34435-000	025-34435-000	025-34435-000
23	Control Transformer	025-37679-000	025-37679-000	025-37679-000	025-35685-000
28	Ground Bar	025-35685-000	025-35685-000	025-35685-000	025-37679-000

**S** = Recommended Spare Part

**\*Service Note:** Locate the PANEL NUMBER sticker on the enclosure sheet metal above the back panel in the Micro Panel section (Figure 15 on page 38), then refer to the appropriate parts list for that number. Or, identify PIN number positions 16 and 17 on unit identification plate then compare to table at left for power configuration options.  
See Figures 15, 16, & 17 starting on page 38.

<b>XX*</b>	Single Point Terminal Block
<b>SD*</b>	Single Point Non-Fused Disconnect Switch
<b>BX*</b>	Single Point Circuit Breaker

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

ITEM	QTY	DESCRIPTION	QWC3150T - 17					QWC3150T - 28				
			371-05974-206* SD	371-05974-306* BX	371-05974-506* MB	371-05975-105* XX	371-05209-217* SD	371-05209-361* BX	371-05209-508* MB			
1A	2	Comp. Contactor (L) Comp. Contactor (R)	024-34294-000	024-34294-000	024-34294-000	024-34294-000	029-23472-000	029-23472-000				
1E	4	Ground Lug	025-34088-000	025-34086-000	025-34088-000	025-34088-000	025-34088-000	025-34088-000				
1F	2	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000				
	3	Single Point Terminal Block	N/A	N/A	N/A	N/A	N/A	N/A				
2A	1	Single Point Circuit Breaker	N/A	024-37004-000	024-35974-000	N/A	N/A	024-35974-000				
	1	Single Point NF Disconnect Switch	N/A	N/A	N/A	N/A	N/A	N/A				
2B	1	Lug Kit	N/A	025-34414-000	025-40824-000	N/A	025-40826-000	025-40824-000				
2C	1	Ground Lug	025-34088-000	025-34088-000	025-34088-000	025-34088-000	025-34088-000	025-34088-000				
2L	1	Handle	N/A	024-31880-000	024-31880-000	N/A	024-31880-000	024-31880-000				
2M	1	Shaft (8.86")	N/A	024-37047-000	024-31879-000	N/A	024-31879-000	024-31879-000				
3A	1	I/O IPU2 Board Kit	031-02550-001	031-02550-001	031-02550-001	031-02550-001	031-02550-001	031-02550-001				
3Q <sup>S</sup>	1	Flash Card	031-02755-004	031-02755-004	031-02755-004	031-02755-004	031-02755-004	031-02755-004				
3S	1	Switch	N/A	024-25517-000	024-25517-000	N/A	024-25517-000	024-25517-000				
3Y	1	Display	031-02109-000	031-02109-000	031-02109-000	031-02109-000	031-02109-000	031-02109-000				
4A	4	Manual Starter (L) Manual Starter (R)	N/A	024-37051-000	024-37051-000	N/A	024-34385-000	024-34385-000				
4B	4	Auxiliary Contact	N/A	024-34384-000	024-34384-000	N/A	024-34384-000	024-34384-000				
6	2	Control Relay	024-37045-000	024-37045-000	024-37045-000	024-37045-000	024-37045-000	024-37045-000				
7	2	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000				
18	1	Fuse Block	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000				
19	1	Fuse	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000				
23	1	Control Transformer	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000				
28	1	Ground Bar	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000				

**S** = Recommended Spare Part

<b>XX*</b>	Single Point Terminal Block
<b>SD*</b>	Single Point Non-Fused Disconnect Switch
<b>BX*</b>	Single Point Circuit Breaker

**\*Service Note:** Locate the PANEL NUMBER sticker on the enclosure sheet metal above the back panel in the Micro Panel section (Figure 15 on page 38), then refer to the appropriate parts list for that number. Or, identify PIN number positions 16 and 17 on unit identification plate then compare to table at left for power configuration options.

See Figures 15, 16, & 17 starting on page 38.

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

ITEM	QTY	DESCRIPTION	QWC3150T - 40				QWC3150T- 46			
			371-05212-120* XX	371-05974-207* SD	371-05974-307* BX	371-05974-507* MB	371-05212-118* XX	371-05209-218* SD	371-05974-308* BX	371-05974-508* MB
1A	2	Comp. Contactor (L)	029-23472-000	024-34310-000	024-34310-000	024-34310-000	024-34310-000	024-37041-000	024-37041-000	
		Comp. Contactor (R)								
1E	4	Ground Lug	025-34086-000	025-34088-000	025-34088-000	025-34088-000	025-34088-000	025-34088-000	025-34088-000	
1F	2	Surge Suppressor	N/A	031-00808-000	031-00808-000	031-00808-000	031-00808-000	024-38978-003	024-38978-003	
2A	3	Single Point Terminal Block	025-38370-000	N/A	N/A	N/A	025-38370-000	N/A	N/A	
		Single Point Circuit Breaker	N/A	N/A	024-35974-000	N/A	N/A	024-35974-000	024-37022-000	
2B	1	Single Point NF Disconnect Switch	N/A							
		Lug Kit	N/A	025-40824-000	025-40824-000	025-34479-000	N/A	025-40824-000	025-34478-000	
2C	1	Ground Lug	025-34088-000	025-34088-000	025-34088-000	025-34088-000	025-34088-000	025-34088-000		
2L	1	Handle	N/A	024-31880-000	024-31880-000	024-37050-000	N/A	024-31880-000	024-37050-000	
2M	1	Shaft (8.86")	N/A	024-31879-000	024-31879-000	024-31879-000	N/A	024-31879-000	024-31879-000	
3A	1	I/O IPU2 Board Kit	031-02550-001	031-02550-001	031-02550-001	031-02550-001	031-02550-001	031-02550-001	031-02550-001	
3Q <sup>S</sup>	1	Flash Card	031-02755-004	031-02755-004	031-02755-004	031-02755-004	031-02755-004	031-02755-004	031-02755-004	
3S	1	Switch	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	
3Y	1	Display	031-02109-000	031-02109-000	031-02109-000	031-02109-000	031-02109-000	031-02109-000	031-02109-000	
4A	4	Manual Starter (L)	N/A	024-37807-000	024-37807-000	024-37807-000	N/A	024-37807-000	024-37807-000	
		Manual Starter (R)								
4B	4	Auxiliary Contact	N/A	024-33176-000	024-33176-000	024-33176-000	N/A	024-33176-000	024-33176-000	
6	2	Control Relay	N/A	024-37045-000	024-37045-000	024-37045-000	024-37045-000	024-37045-000	024-37045-000	
7	2	Surge Suppressor	N/A	031-00808-000	031-00808-000	031-00808-000	031-00808-000	024-38978-003	024-38978-003	
18	1	Fuse Block	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	
19	1	Fuse	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	
23	1	Control Transformer	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	
28	1	Ground Bar	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	

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

<b>XX*</b>	Single Point Terminal Block
<b>SD*</b>	Single Point Non-Fused Disconnect Switch
<b>BX*</b>	Single Point Circuit Breaker

**\*Service Note:** Locate the PANEL NUMBER sticker on the enclosure sheet metal above the back panel in the Micro Panel section (Figure 15 on page 38), then refer to the appropriate parts list for that number. Or, identify PIN number positions 16 and 17 on unit identification plate then compare to table at left for power configuration options.

See Figures 15, 16, & 17 starting on page 38.

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

ITEM	QTY	DESCRIPTION	QWC3150T - 58					QWC3170T-17 & QWC3170T-28				
			371-05212-118* XX	371-05209-233* SD	371-05209-364* BX	371-05974-509* MB	371-05213-111* XX	371-05210-211* SD	371-05210-323* BX	371-05586-501* MB		
1A	2	Comp. Contactor (L)	024-34310-000	024-37041-000	024-37041-000	024-37040-000			024-35467-000	029-23472-000	024-35462-000	029-23472-000
		Comp. Contactor (R)										
1E	4	Ground Lug	025-34086-000	025-34088-000	025-34088-000	025-34455-000			025-34455-000	025-34088-000		025-34088-000
1F	2	Surge Suppressor	031-00808-000	024-38978-003	024-38978-003	024-38978-003			031-00808-000	N/A		N/A
2A	3	Single Point Terminal Block	025-38370-000	N/A	N/A	N/A				N/A	N/A	N/A
		Single Point Circuit Breaker	N/A	N/A	024-37024-000	024-37020-000				N/A	024-31819-000	
	1	Single Point NF Disconnect Switch	N/A	N/A	N/A	N/A				N/A		N/A
2B	1	Lug Kit	N/A	025-34479-000	025-34479-000	025-34478-000				025-34414-000	025-34480-000	025-40825-000
2C	1	Ground Lug	025-34088-000	025-34088-000	025-34088-000	025-34088-000				025-34088-000	025-34089-000	025-34088-000
2L	1	Handle	N/A	024-37050-000	024-37050-000	024-37050-000				024-31880-000	024-31880-000	024-31880-000
2M	1	Shaft (8.86")	N/A	024-37047-000	024-31879-000	024-31879-000				024-37047-000	SW-0688	024-31879-000
3A	1	I/O IPU2 Board Kit	031-02550-001	031-02550-001	031-02550-001	031-02550-001				031-02550-001	331-02550-101	031-02550-001
3Q <sup>S</sup>	1	Flash Card	031-02755-004	031-02755-004	031-02755-004	031-02755-004				031-02755-004	031-02755-001	031-02755-004
3S	1	Switch	024-25517-000	024-25517-000	024-25517-000	024-25517-000				024-25517-000	024-25517-000	024-25517-000
3Y	1	Display	031-02109-000	031-02109-000	031-02109-000	031-02109-000				031-02109-000	031-01110-000	031-02109-000
4A	4	Manual Starter (L)	N/A	024-37805-000	024-37806-000	024-37806-000				024-34385-000	025-34488-000	024-37051-000
		Manual Starter (R)										
4B	4	Auxiliary Contact	N/A	024-33176-000	024-33176-000	024-33176-000				024-34384-000	024-31814-000	024-34384-000
6	2	Control Relay	N/A	024-37045-000	024-37045-000	024-37045-000				024-37045-000	024-35526-000	024-37045-000
7	2	Surge Suppressor	031-00808-000	024-38978-003	024-38978-003	024-38978-003				N/A	031-00808-000	N/A
18	1	Fuse Block	025-17407-000	025-34484-000	025-34484-000	025-34484-000				025-34484-000	025-34484-000	025-34484-000
19	1	Fuse	025-34435-000	025-34435-000	025-34435-000	025-34435-000				025-34435-000	025-34435-000	025-34435-000
23	1	Control Transformer	025-37679-000	025-37679-000	025-37679-000	025-37679-000				025-37679-000	025-37679-000	025-37679-000
28	1	Ground Bar	025-35685-000	025-35685-000	025-35685-000	025-35685-000				025-35685-000	025-35685-000	025-35685-000

PANEL NOT AVAILABLE AT TIME OF PRINTING

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

<b>XX*</b>	Single Point Terminal Block
<b>SD*</b>	Single Point Non-Fused Disconnect Switch
<b>BX*</b>	Single Point Circuit Breaker

**\*Service Note:** Locate the PANEL NUMBER sticker on the enclosure sheet metal above the back panel in the Micro Panel section (Figure 15 on page 38), then refer to the appropriate parts list for that number. Or, identify PIN number positions 16 and 17 on unit identification plate then compare to table at left for power configuration options.

See Figures 15, 16, & 17 starting on page 38.

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

ITEM	DESCRIPTION	QWC3170T-40				QWC3170T-46			
		371-05213-116* XX	371-05210-238* SD	371-05210-348* BX	371-05586-502* MB	371-05213-112* XX	371-05210-212* SD	371-05210-324* BX	371-05586-503* MB
1A	Comp. Contactor (L)	024-35473-000	024-35467-000	024-35467-000	024-35467-000	024-35467-000	024-35467-000	024-35467-000	024-37040-000
	Comp. Contactor (R)		024-35462-000	024-35462-000	024-35462-000	024-34310-000	024-35462-000	024-35462-000	
1E	Ground Lug	025-34088-000	025-34455-000	025-34455-000	025-34088-000	025-34086-000	025-34455-000	025-34455-000	025-34455-000
1F	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	024-38978-003	031-00808-000	031-00808-000	031-00808-000	024-38978-003
2A	Single Point Terminal Block	025-38370-000	N/A	N/A	N/A	025-38370-000	N/A	N/A	N/A
	Single Point Circuit Breaker	N/A	N/A	025-34424-000	024-37023-000	N/A	N/A	024-31819-000	024-37023-000
	Single Point NF Disconnect Switch	N/A	024-25564-000	N/A	N/A	N/A	024-30963-000	N/A	N/A
2B	Lug Kit	N/A	025-34481-000	025-34481-000	025-34479-000	N/A	025-34418-000	025-34480-000	025-34479-000
2C	Ground Lug	025-34088-000	025-34086-000	025-34086-000	025-34088-000	025-34088-000	025-34085-000	025-34089-000	025-34088-000
2L	Handle	N/A	024-31880-000	024-31880-000	024-37050-000	N/A	024-31880-000	024-31880-000	024-37050-000
2M	Shaft (8.86")	N/A	SW-0688	SW-0688	024-31879-000	N/A	SW-0688	SW-0688	024-31879-000
3A	I/O IPU2 Board Kit	031-02550-001	331-02550-101	331-02550-101	031-02550-001	031-02550-001	331-02550-101	331-02550-101	031-02550-001
3Qs	Flash Card	031-02755-004	031-02755-001	031-02755-001	031-02755-001	031-02755-004	031-02755-001	031-02755-001	031-02755-004
3S	Switch	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000
3Y	Display	031-02109-000	031-01110-000	031-01110-000	031-02109-000	031-02109-000	031-01110-000	031-01110-000	031-02109-000
4A	Manual Starter (L)	N/A	025-34488-000	025-34488-000	024-37807-000	N/A	025-34488-000	025-34488-000	024-37805-000
	Manual Starter (R)		024-31816-000	024-31816-000	024-31816-000		024-31816-000	024-31816-000	
4B	Auxiliary Contact	N/A	024-31814-000	024-31814-000	024-33176-000	N/A	024-31814-000	024-31814-000	024-33176-000
6	Control Relay	024-37045-000	024-35526-000	024-35526-000	024-37045-000	024-37045-000	024-35526-000	024-35526-000	024-37045-000
7	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	024-38978-003	031-00808-000	031-00808-000	031-00808-000	024-38978-003
18	Fuse Block	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000
19	Fuse	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000
23	Control Transformer	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000
28	Ground Bar	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000

S = Recommended Spare Part

<b>XX*</b>	Single Point Terminal Block
<b>SD*</b>	Single Point Non-Fused Disconnect Switch
<b>BX*</b>	Single Point Circuit Breaker

**\*Service Note:** Locate the PANEL NUMBER sticker on the enclosure sheet metal above the back panel in the Micro Panel section (Figure 15 on page 38), then refer to the appropriate parts list for that number. Or, identify PIN number positions 16 and 17 on unit identification plate then compare to table at left for power configuration options.

See Figures 15, 16, & 17 starting on page 38.

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

ITEM	DESCRIPTION	QWC3170T-58				QWC3200T-17 & QWC3200T-28			
		371-05213-112* XX	371-05210-239* SD	371-05210-349* BX	371-05586-504* MB	371-05213-113* XX	371-05210-213* SD	371-05210-325* BX	371-05586-506* MB
1A	Comp. Contactor (L) Comp. Contactor (R)	024-34310-000	024-35467-000 024-35462-000	024-35467-000 024-35462-000	024-37039-000	PANEL NOT AVAILABLE AT TIME OF PRINTING			
1E	Ground Lug	025-34086-000	025-34455-000	025-34455-000	025-34455-000				
1F	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	024-38978-003				
	Single Point Terminal Block	N/A	N/A	N/A	N/A				
2A	Single Point Circuit Breaker	N/A	N/A	025-34419-000	024-37022-000				
	Single Point NF Disconnect Switch	N/A	024-30963-000	N/A	N/A				
2B	Lug Kit	N/A	025-34418-000	025-34418-000	025-34478-000				
2C	Ground Lug	025-34088-000	025-34085-000	025-34085-000	025-34088-000				
2L	Handle	N/A	024-31880-000	024-31880-000	024-37050-000				
2M	Shaft (8.86")	N/A	SW-0688	SW-0688	024-31879-000				
3A	I/O IPU2 Board Kit	031-02550-001	331-02550-101	331-02550-101	031-02550-001				
3Qs	Flash Card	031-02755-004	031-02755-001	031-02755-001	031-02755-004				
3S	Switch	024-25517-000	024-25517-000	024-25517-000	024-25517-000				
3Y	Display	031-02109-000	031-01110-000	031-01110-000	031-02109-000				
4A	Manual Starter (L) Manual Starter (R)	N/A	024-31816-000	025-34488-000 024-31816-000	024-37805-000				
4B	Auxiliary Contact	N/A	024-31814-000	024-31814-000	024-33176-000				
6	Control Relay	024-37045-000	024-35526-000	024-35526-000	024-37045-000				
7	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	024-38978-003				
18	Fuse Block	025-34484-000	025-34484-000	025-34484-000	025-34484-000				
19	Fuse	025-34435-000	025-34435-000	025-34435-000	025-34435-000				
23	Control Transformer	025-37679-000	025-37679-000	025-37679-000	025-37679-000				
28	Ground Bar	025-35685-000	025-35685-000	025-35685-000	025-35685-000				

S = Recommended Spare Part

<b>XX*</b>	Single Point Terminal Block
<b>SD*</b>	Single Point Non-Fused Disconnect Switch
<b>BX*</b>	Single Point Circuit Breaker

**\*Service Note:** Locate the PANEL NUMBER sticker on the enclosure sheet metal above the back panel in the Micro Panel section (Figure 15 on page 38), then refer to the appropriate parts list for that number. Or, identify PIN number positions 16 and 17 on unit identification plate then compare to table at left for power configuration options.

See Figures 15, 16, & 17 starting on page 38.

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

ITEM	DESCRIPTION	QWC3200T-40				QWC3200T-46			
		371-05213-118* XX	371-05210-214* SD	371-05210-350* BX	371-05586-507* MB	371-05213-114* XX	371-05210-214* SD	371-05210-326* BX	371-05586-508* MB
1A	Comp. Contactor (L)	029-23472-000	024-35467-000	024-35467-000	024-37041-000	024-34310-000	024-35467-000	024-35467-000	024-37040-000
	Comp. Contactor (R)								
1E	Ground Lug	025-34088-000	025-34455-000	025-34455-000	025-34088-000	025-34088-000	025-34455-000	025-34455-000	025-34455-000
1F	Surge Suppressor	N/A	031-00808-000	031-00808-000	024-38978-003	025-34086-000	031-00808-000	031-00808-000	024-38978-003
2A	Single Point Terminal Block	025-38364-000	N/A						
	Single Point Circuit Breaker	N/A	N/A	025-34424-000	024-37024-000	N/A	N/A	025-34419-000	024-37023-000
	Single Point NF Disconnect Switch	N/A	024-25564-000	N/A	N/A	N/A	024-25564-000	N/A	N/A
2B	Lug Kit	N/A	025-34481-000	025-34481-000	025-34479-000	N/A	025-34481-000	025-34418-000	025-34479-000
2C	Ground Lug	025-34088-000	025-34086-000	025-34086-000	025-34088-000	025-34088-000	025-34086-000	025-34085-000	025-34088-000
2L	Handle	N/A	024-31880-000	024-31880-000	024-37050-000	N/A	024-31880-000	024-31880-000	024-37050-000
2M	Shaft (8.86")	N/A	SW-0688	SW-0688	024-31879-000	N/A	SW-0688	SW-0688	024-31879-000
3A	I/O IPU2 Board Kit	031-02550-001	331-02550-101	331-02550-101	031-02550-001	031-02550-001	331-02550-101	331-02550-101	031-02550-001
3Q <sup>S</sup>	Flash Card	031-02755-004	031-02755-001	031-02755-001	031-02755-004	031-02755-004	031-02755-001	031-02755-001	031-02755-004
3S	Switch	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000
3Y	Display	031-02109-000	031-01110-000	031-01110-000	031-02109-000	031-02109-000	031-01110-000	031-01110-000	031-02109-000
4A	Manual Starter	N/A	025-34488-000	025-34488-000	024-37807-000	N/A	025-34488-000	025-34488-000	024-37806-000
4B	Auxiliary Contact	N/A	024-31814-000	024-31814-000	024-33176-000	N/A	024-31814-000	024-31814-000	024-33176-000
6	Control Relay	024-37045-000	024-35526-000	024-35526-000	024-37045-000	024-37045-000	024-35526-000	024-35526-000	024-37045-000
7	Surge Suppressor	N/A	031-00808-000	031-00808-000	024-38978-003	031-00808-000	031-00808-000	031-00808-000	024-38978-003
18	Fuse Block	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000
19	Fuse	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000	025-34435-000
23	Control Transformer	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000	025-37679-000
28	Ground Bar	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000	025-35685-000

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

<b>XX*</b>	Single Point Terminal Block
<b>SD*</b>	Single Point Non-Fused Disconnect Switch
<b>BX*</b>	Single Point Circuit Breaker

**\*Service Note:** Locate the PANEL NUMBER sticker on the enclosure sheet metal above the back panel in the Micro Panel section (Figure 15 on page 38), then refer to the appropriate parts list for that number. Or, identify PIN number positions 16 and 17 on unit identification plate then compare to table at left for power configuration options.

See Figures 15, 16, & 17 starting on page 38.

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

ITEM	DESCRIPTION	QWC3200T-58			
		371-05213-117* XX	371-05210-240* SD	371-05210-351* BX	371-05586-509* MB
1A	Comp. Contactor (L)	024-37041-000	024-35467-000	024-35467-000	024-37039-000
	Comp. Contactor (R)				
1E	Ground Lug	025-34086-000	025-34455-000	025-34455-000	025-34455-000
1F	Surge Suppressor	024-38978-003	031-00808-000	031-00808-000	024-38978-003
2A	Single Point Terminal Block	025-38370-000	N/A	N/A	N/A
	Single Point Circuit Breaker	N/A	N/A	025-34419-000	024-37022-000
	Single Point NF Disconnect Switch	N/A	024-30963-000	N/A	N/A
	Lug Kit	N/A	025-34418-000	025-34418-000	025-34478-000
2C	Ground Lug	025-34088-000	025-34085-000	025-34085-000	025-34088-000
2L	Handle	N/A	024-31880-000	024-31880-000	024-37050-000
2M	Shaft (8.86")	N/A	SW-0688	SW-0688	024-31879-000
3A	I/O IPU2 Board Kit	031-02550-001	331-02550-101	331-02550-101	031-02550-001
3Q <sup>S</sup>	Flash Card	031-02755-004	031-02755-001	031-02755-001	031-02755-004
3S	Switch	024-25517-000	024-25517-000	024-25517-000	024-25517-000
3Y	Display	031-02109-000	031-01110-000	031-01110-000	031-02109-000
4A	Manual Starter (L)	N/A	024-31816-000	024-31816-000	024-37805-000
	Manual Starter (R)				
4B	Auxiliary Contact (L)	N/A	024-31814-000	024-31814-000	024-33176-000
	Auxiliary Contact (R)				
5A	Transformer	N/A	N/A	N/A	N/A
5G	Fuse	N/A	N/A	N/A	N/A
5F	Fuse Block	N/A	N/A	N/A	N/A
6	Control Relay	024-37045-000	024-35526-000	024-35526-000	024-37045-000
7	Surge Suppressor	024-38978-003	031-00808-000	031-00808-000	024-38978-003
18	Fuse Block	025-34484-000	025-34484-000	025-34484-000	025-34484-000
19	Fuse	025-34435-000	025-34435-000	025-34435-000	025-34435-000
23	Control Transformer	025-37679-000	025-37679-000	025-37679-000	025-37679-000
28	Ground Bar	025-35685-000	025-35685-000	025-35685-000	025-35685-000

S = Recommended Spare Part

XX*	Single Point Terminal Block
SD*	Single Point Non-Fused Disconnect Switch
BX*	Single Point Circuit Breaker

**\*Service Note:** Locate the PANEL NUMBER sticker on the enclosure sheet metal above the back panel in the Micro Panel section (Figure 15 on page 38), then refer to the appropriate parts list for that number. Or, identify PIN number positions 16 and 17 on unit identification plate then compare to table at left for power configuration options.

See Figures 15, 16, & 17 starting on page 38.

## SYSTEM WIRING

**TABLE 14 - SYSTEM WIRING 60 HZ**

ITEM	MODEL	PIN 32 =	DESCRIPTION	PART NUMBER	SAP
1	QWC3050T - QWC3200T	E	Surface And Duct Sensor Kit-Sys1	392-21956-000	1111231
2	QWC3050T - QWC3200T	E	Surface And Duct Sensor Kit-Sys2	392-21958-000	1111233
3	QWC3050T - QWC3090T, QWC3100T - QWC3115T, QWC3130TSE	X	High Pressure Cut-Out	575-67811-203	808122
	QWC3095T, QWC3130THE, QWC3150T			575-67811-206	682169
	QWC3050T - QWC3090T, QWC3100T - QWC3115T, QWC3130TSE - QWC3150T	E		575-67811-203	808122
	QWC3095T, QWC3130THE, QWC3170T, QWC3200T			575-67811-206	682169
4	QWC3050T - QWC3090T, QWC3100T - QWC3115T, QWC3130TSE	X	High Pressure Cut-Out	575-67811-204	808123
	QWC3095T, QWC3130THE, QWC3150T			575-67811-207	682170
	QWC3050T - QWC3090T, QWC3100T - QWC3115T, QWC3130TSE - QWC3150T	E		575-67811-204	808123
	QWC3095T, QWC3130THE, QWC3170T, QWC3200T			575-67811-207	682170
5	QWC3050T - QWC3150T	X	Kit, Cable	375-70377-001	519448
	QWC3050T - QWC3200T	E		375-70377-002	524651
6	QWC3050T - QWC3200T	X, E	Transducer Psis 0-400	025-41756-002	392054
7	QWC3050T - QWC3200T	X, E	Connr, Conduit Flex Angle	025-31318-000	394338
10	QWC3050T - QWC3200T	X, E	Hsg Connr Plug Mini 12 Ckt Nat	025-28384-000	737920
11	QWC3050T - QWC3200T	X, E	Hsg Connr Plug Mini 9 Ckt Nat	025-28383-000	737917
12	QWC3050T - QWC3200T	X, E	High Press Cut Out	025-41854-000	633363
13	QWC3050T - QWC3200T	X, E	Transducer Psis 0-650	025-41756-003	392055
14	QWC3050T - QWC3200T	E	Hsg Connr Plug Mini 4 Ckt Nat	025-28959-000	738246
15	QWC3050T - QWC3200T	X, E	Sensor Temp 3000 Ohms	025-40334-000	739796
16	QWC3050T - QWC3200T	X, E	Wiring Harness (With Din Plug)	575-67811-201	808120
17	QWC3050T - QWC3090T, QWC3100T - QWC3115T, QWC3130TSE	X	Wiring Harness (With Din Plug)	575-67811-202	808121
	QWC3095T, QWC3130THE, QWC3150T			575-67811-205	808124
	QWC3050T - QWC3090T, QWC3100T - QWC3115T, QWC3130TSE - QWC3150T	E		575-67811-202	808121
	QWC3095T, QWC3130THE, QWC3170T, QWC3200T			575-67811-205	808124
18	QWC3050T - QWC3200T	E	EEV Cable Kit-Sys1	392-21957-000	1111232
19	QWC3050T - QWC3200T	E	EEV Cable Kit-Sys2	392-21959-000	1111234
100	QWC3050T - QWC3200T	X, E	Wiring Hrns 3 Conductor Sensor	575-67811-300*	808132
101	QWC3050T - QWC3200T	X, E	Wiring Hrns 3 Conductor Sensor	575-67811-301*	808133
102	QWC3050T - QWC3200T	X, E	Wiring Harness 3 Conductor	575-67811-302*	808134
103	QWC3050T - QWC3200T	X, E	Wiring Harness 3 Conductor	575-67811-303*	808135
104	QWC3050T - QWC3200T	X, E	Wiring Harness 2 Conductor	575-67811-305*	808137
105	QWC3050T - QWC3200T	X, E	Wiring Harness 2 Conductor	575-67811-304*	808136
106	QWC3050T - QWC3200T	X, E	Wiring Harness 2 Conductor	575-67811-312*	808139
107	QWC3050T - QWC3200T	X, E	Wiring Harness 2 Conductor	575-67811-313*	808140
108	QWC3050T - QWC3200T	E	Wiring Harness Sys #1 Pigtail	575-67811-306*	808138
109	QWC3050T - QWC3200T	E	Wiring Harness Sys #2 Pigtail	575-67811-307*	525163

\*See Table 15 on page 73 for harness breakdown

**TABLE 15 - SYSTEM WIRING HARNESS DETAILS**

ITEM	DESCRIPTION	PART NUMBER	SAP	QUANTITY
<b>3</b>	Wiring Harness (1-Fhp1)	575-67811-209	525309	-
	Conduit	025-31302-000	618155	5.25 ft
	3/8" Straight Connector (End "X")	025-31309-000	117547	1
	3/8" Straight Connector (End "Y")	025-31309-000	117547	1
	Din Plug with Suppressor	025-37876-000	117987	1
<b>3</b>	Wiring Harness (1-Fhp1)	575-67811-211	519446	-
	Conduit	025-31302-000	618155	6.50 ft
	3/8" Straight Connector (End "X")	025-31309-000	117547	1
	3/8" Straight Connector (End "Y")	025-31309-000	117547	1
	Din Plug with Suppressor	025-37876-000	117987	1
<b>4</b>	Wiring Harness (2-Fhp1)	575-67811-210	525313	-
	Conduit	025-31302-000	618155	4.50 ft.
	3/8" Straight Connector (End "X")	025-31309-000	117547	1
	3/8" Straight Connector (End "Y")	025-31309-000	117547	1
	Din Plug with Suppressor	025-37876-000	117987	1
<b>4</b>	Wiring Harness (2-Fhp1)	575-67811-212	519447	-
	Conduit	025-31302-000	618155	3.50 ft.
	3/8" Straight Connector (End "X")	025-31309-000	117547	1
	3/8" Straight Connector (End "Y")	025-31309-000	117547	1
	Din Plug with Suppressor	025-37876-000	117987	1
<b>17</b>	Wiring Harness (With Din Plug)	575-67811-202	808121	-
	Conduit	025-31302-000	618155	2.83 ft.
	3/8" 90 Degree Angle Connector	025-31315-000	618164	1
	3/8" Straight Connector (End "Y")	025-31309-000	117547	1
	Din Plug with Suppressor	025-37876-000	117987	1
<b>17</b>	Wiring Harness (With Din Plug)	575-67811-205	808124	-
	Conduit	025-31302-000	618155	3.92 ft.
	3/8" 90 Degree Angle Connector	025-31315-000	618164	1
	3/8" Straight Connector (End "Y")	025-31309-000	117547	1
	Din Plug with Suppressor	025-37876-000	117987	1
<b>100</b>	WIRING HRNS 3 CONDUCTOR SENSOR	575-67811-300	808132	-
	3 Cond. Shield Wire	025-30463-003	738503	93"
	Plug	025-41761-000	920269	1
	Mini Univ Socket	025-28386-000	737925	4
	Terminal, Female	025-41812-000	920272	3
<b>101</b>	WIRING HRNS 3 CONDUCTOR SENSOR	575-67811-301	808133	-
	3 Cond. Shield Wire	025-30463-003	738503	89"
	Plug	025-41761-000	920269	1
	Mini Univ Socket	025-28386-000	737925	4
	Terminal, Female	025-41812-000	920272	3

**TABLE 15 - SYSTEM WIRING HARNESS DETAILS (CONT'D)**

ITEM	DESCRIPTION	PART NUMBER	SAP	QUANTITY
<b>102</b>	WIRING HARNESS 3 CONDUCTOR	575-67811-302	808134	-
	3 Cond. Shield Wire	025-30463-003	738503	120"
	Plug	025-41761-000	920269	1
	Mini Univ Socket	025-28386-000	737925	4
	Terminal, Female	025-41812-000	920272	3
<b>103</b>	WIRING HARNESS 3 CONDUCTOR	575-67811-303	808135	-
	3 Cond. Shield Wire	025-30463-003	738503	90"
	Plug	025-41761-000	920269	1
	Mini Univ Socket	025-28386-000	737925	4
	Terminal, Female	025-41812-000	920272	3
<b>104</b>	WIRING HARNESS 2 CONDUCTOR	575-67811-305	808137	-
	3 Cond. Shield Wire	025-30463-003	738503	140"
	Plug	025-41761-000	920269	1
	Mini Univ Socket	025-28386-000	737925	3
	Collar	025-28950-000	65212	2
	Contact Receptacle	025-28952-000	260	2
<b>105</b>	WIRING HARNESS 2 CONDUCTOR	575-67811-304	808136	-
	3 Cond. Shield Wire	025-30463-003	738503	140"
	Plug	025-41761-000	920269	1
	Mini Univ Socket	025-28386-000	737925	3
	Collar	025-28950-000	65212	2
	Contact Receptacle	025-28952-000	260	2
<b>106</b>	WIRING HARNESS 2 CONDUCTOR	575-67811-312	808139	-
	3 Cond. Shield Wire	025-30463-003	738503	123"
	Plug	025-41761-000	920269	1
	Mini Univ Socket	025-28386-000	737925	3
	Collar	025-28950-000	65212	2
	Contact Receptacle	025-28952-000	260	2
<b>107</b>	WIRING HARNESS 2 CONDUCTOR	575-67811-313	808140	-
	3 Cond. Shield Wire	025-30463-003	738503	71"
	Plug	025-41761-000	920269	1
	Mini Univ Socket	025-28386-000	737925	3
	Collar	025-28950-000	65212	2
	Contact Receptacle	025-28952-000	260	2
<b>108</b>	WIRING HARNESS SYS #1 PIGTAIL	575-67811-306	808138	-
	3 Conductor Shield Wire	025-30463-003	738503	.75 ft.
	3 Conductor Shield Wire	025-30463-003	738503	2 ft.
	Cap, 4 Position	025-23962-000	-	1
	Mini-Univ. Pin	025-30999-000	738540	4
	Mini-Univ. Pin	025-39579-000	920173	4
<b>109</b>	WIRING HARNESS SYS #2 PIGTAIL	575-67811-307	525163	-
	3 Conductor Shield Wire	025-30463-003	738503	.75 ft.
	3 Conductor Shield Wire	025-30463-003	738503	2 ft.
	Cap, 4 Position	025-23962-000	-	1
	Mini-Univ. Pin	025-30999-000	738540	4
	Mini-Univ. Pin	025-39579-000	920173	4

## SENSOR HARNESSSES

**TABLE 16 - SENSOR HARNESS WIRING**

FUNCTION	BOARD LOCATION	CABLE ITEM NUMBER	CABLE NUMBER	WIRE COLOR	PLUG PIN NUMBER	HARNESS ASSEMBLY PART NUMBER
Leaving Water Temperature	Micro P6	106	10	Black	7	575-67811-312
				Red	4	
				Drain	1	
Enter Water Temperature	Micro P6	107	11	Black	8	575-67811-313
				Red	5	
				Drain	2	
System 1 Suction Pressure / EEV Controller	Micro P7	108		Red	5	575-67811-306
				White	10	
				Black	9	
				Drain	1	
System 1 Discharge Pressure	Micro P7	102	6	Red	6	575-67811-302
				White	11	
				Black	7	
				Drain	2	
Leaving Condenser Temperature	Micro P8	104	8	Black	9	575-67811-305
				Red	6	
				Drain	3	
System 2 Suction Pressure/ EEV Controller	Micro P9	109		Red	5	575-67811-307
				White	10	
				Black	9	
				Drain	1	
System 2 Discharge Pressure	Micro P9	103	7	Red	6	575-67811-303
				White	11	
				Black	7	
				Drain	2	
Entering Condenser Temp	Micro 10	105	9	Black	9	575-67811-304
				Red	6	
				Drain	3	

See Figures 19, 20 & 21 starting on page 76

**TABLE 17 - 1-BSP (SUCTION PRESSURE) WIRING DETAIL**

FUNCTION	BOARD LOCATION	CABLE ITEM NUMBER	CABLE NUMBER	WIRE COLOR	PLUG PIN NUMBER	HARNESS ASSEMBLY PART NUMBER
System 1 Suction Pressure	Micro P16	100	4	Red	1	575-67811-300
				White	2	
				Black	3	
				Drain	4	

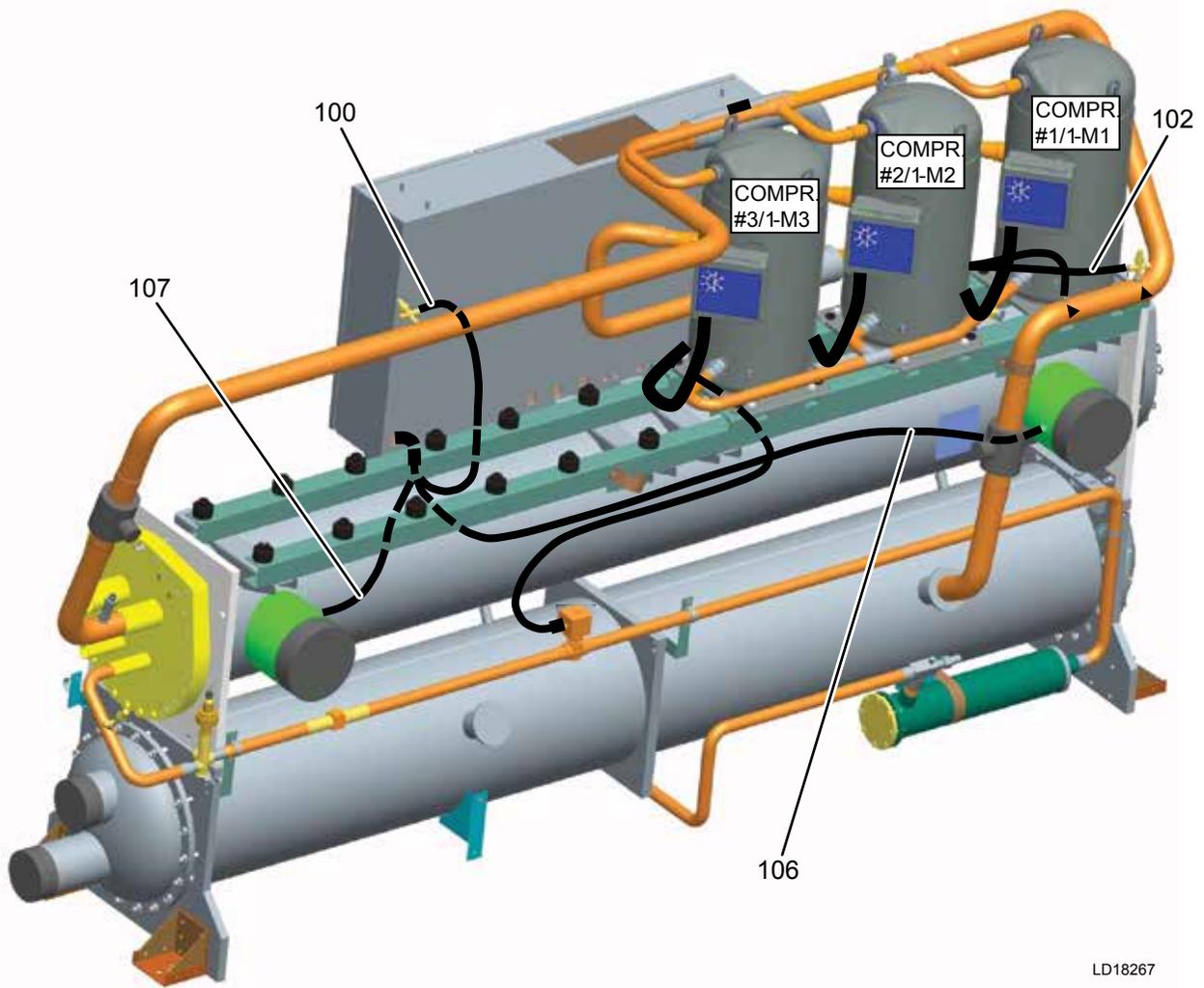
See Figures 19, 20 & 21 starting on page 76

**TABLE 18 - 2-BSP (SUCTION PRESSURE) WIRING DETAIL**

FUNCTION	BOARD LOCATION	CABLE ITEM NUMBER	CABLE NUMBER	WIRE COLOR	PLUG PIN NUMBER	HARNESS ASSEMBLY PART NUMBER
System 2 Suction Pressure	Micro P18	101	5	Red	1	575-67811-301
				White	2	
				Black	3	
				Drain	4	

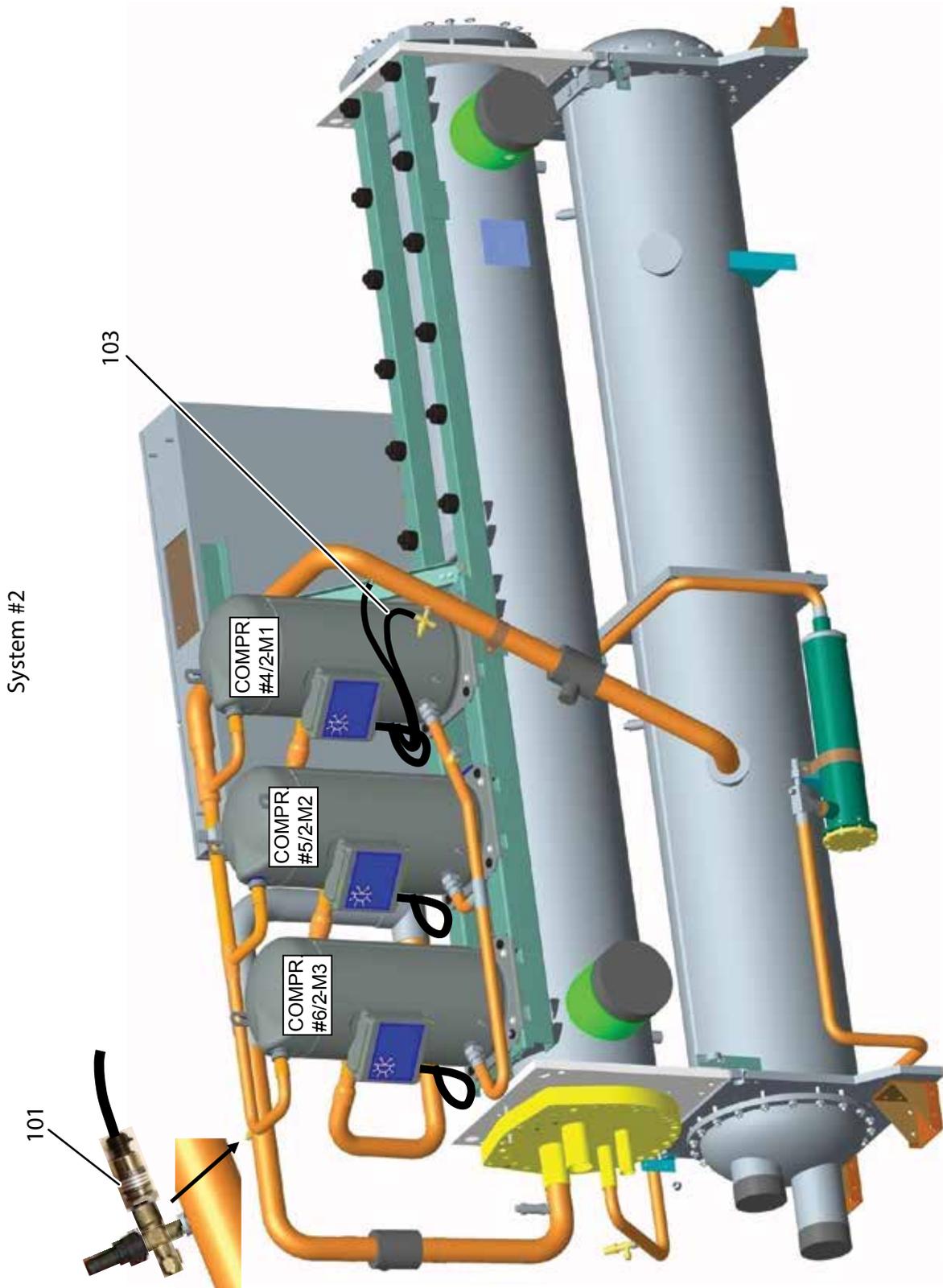
See Figures 19, 20 & 21 starting on page 76

System #1



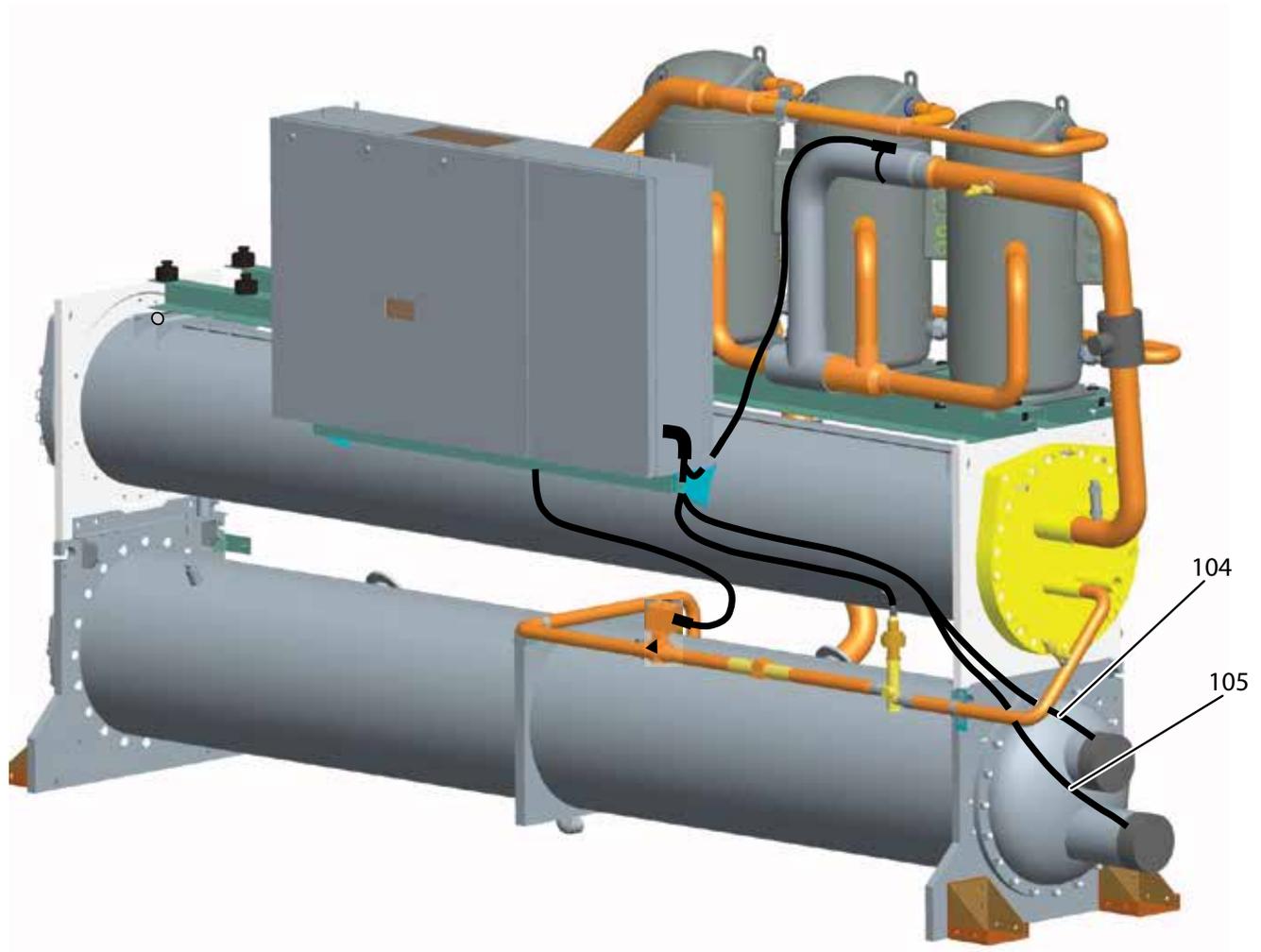
LD18267

FIGURE 19 - SENSOR HARNESES



LD18268

FIGURE 20 - SENSOR HARNESSSES



LD18269

**FIGURE 21 - SENSOR HARNESES**

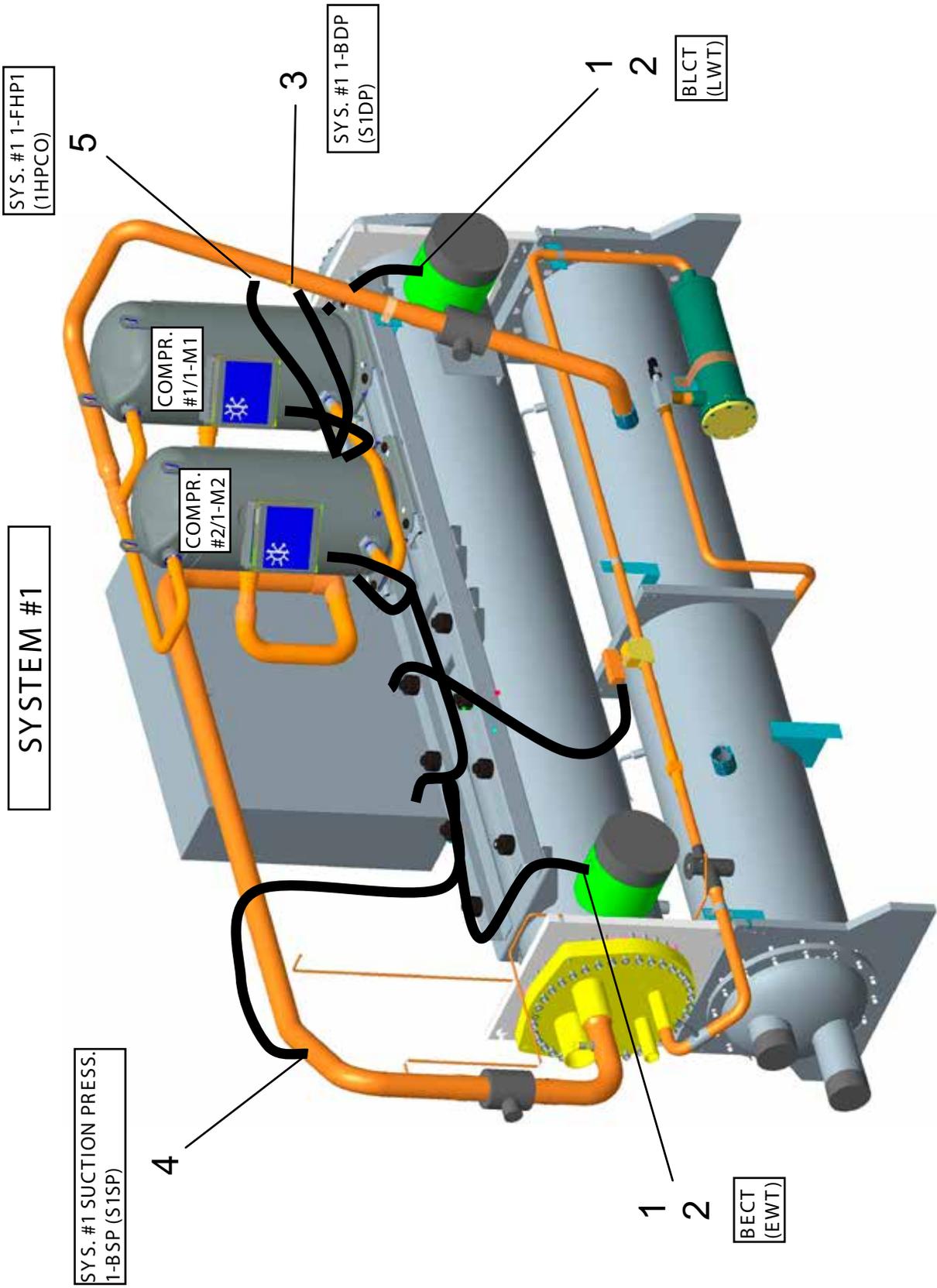
## TRANSDUCERS, CUT-OUTS AND TEMP SENSORS

**TABLE 19 - TRANSDUCERS, TEMP SENSORS AND HIGH PRESSURE CUT-OUT SWITCH**

ITEM #	DESCRIPTION	VOLTAGE CODE	PART NUMBER	QUANTITY
<b>1<sup>S</sup></b>	Sensor, Water Temp. (EWT)	All	025-40273-010	1
	Sensor, Water Temp. (LWT)		025-40273-009	1
<b>2</b>	Compound, Heat Conductive	All	013-00898-000	-
<b>3<sup>S</sup></b>	Transducer, Discharge Pressure (0-650psi)	All	025-41756-003	1 per system
<b>4<sup>S</sup></b>	Transducer, Suction Pressure (0-400psi)	All	025-41756-002	1 per system
<b>5</b>	High Pressure Cut Out Switch	All	025-41854-000	1 per system

<sup>S</sup>Recommended Spare Part

See Figures 22 & 23 starting on page 80



**FIGURE 22 - TRANSDUCERS, CUT-OUTS AND TEMP SENSORS**

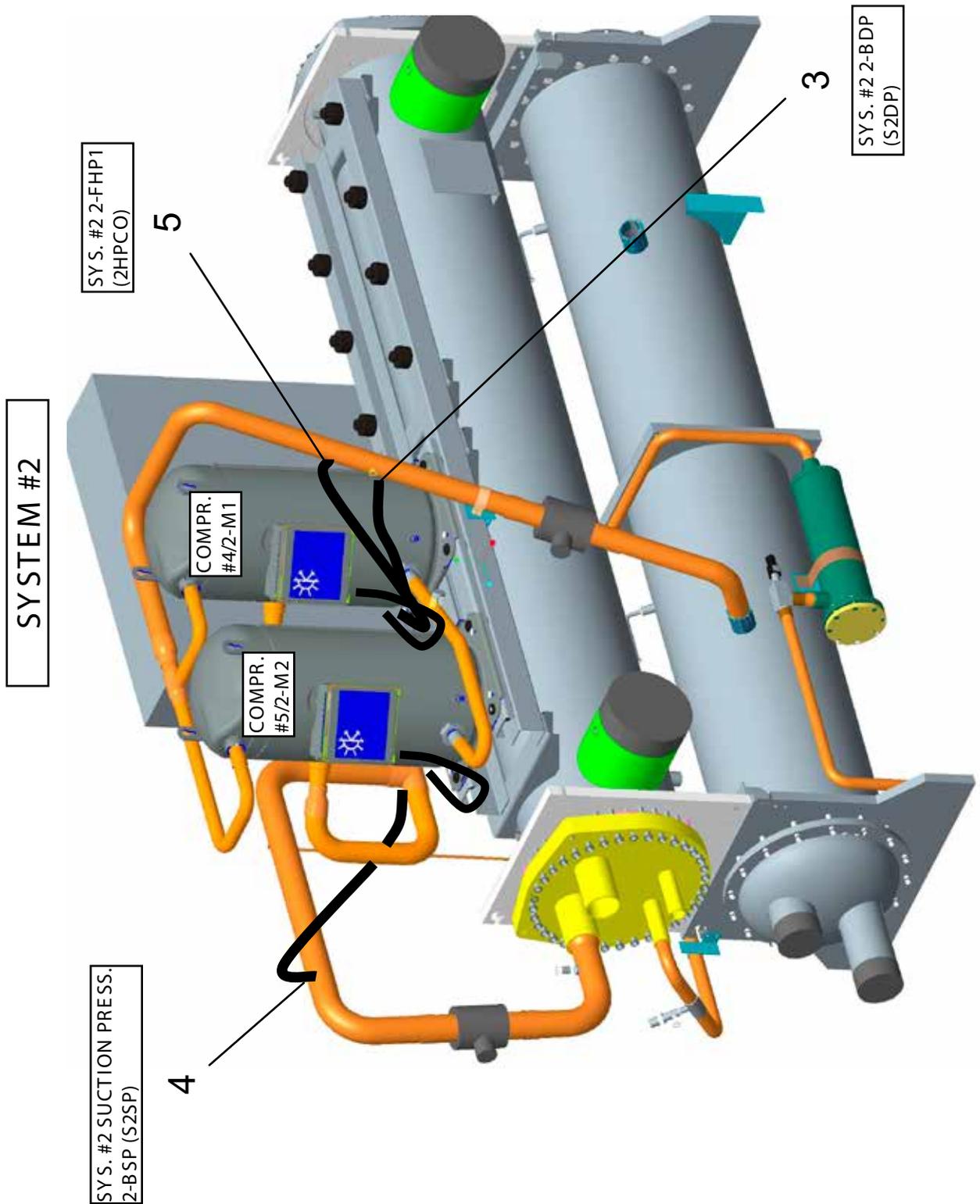


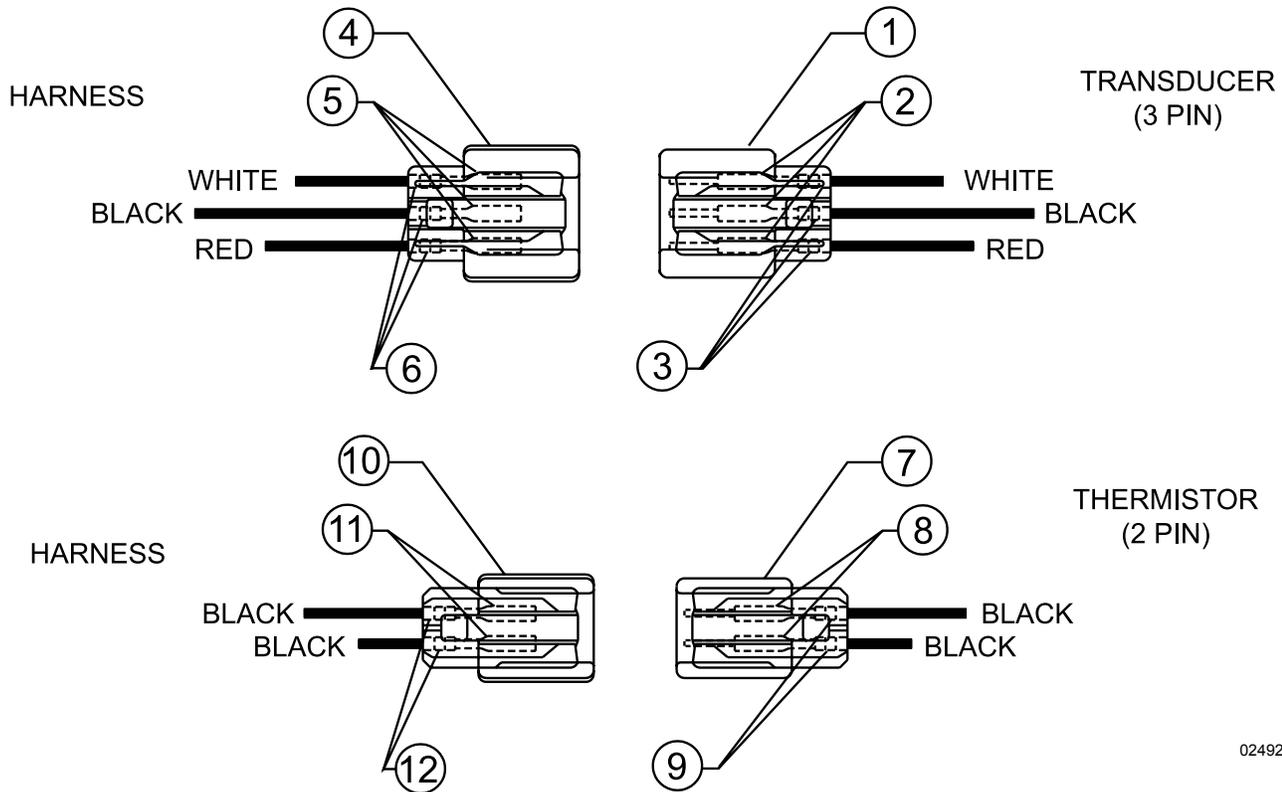
FIGURE 23 - TRANSDUCERS AND TEMP SENSORS

## TRANSDUCER AND THERMISTOR WIRE HARNESS CONNECTORS - FIELD REPLACEMENT PART NUMBERS

**TABLE 20 - TRANSDUCER AND THERMISTOR WIRE HARNESS CONNECTORS - FIELD REPLACEMENT PART NUMBER**

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

<sup>§</sup>Recommended Spare Part



02492-2b

**FIGURE 24 - TRANSDUCER AND THERMISTOR WIRE HARNESS CONNECTORS - FIELD REPLACEMENT PART NUMBERS**

**TABLE 21 - EEV PANEL KIT**

MODELS QWC3	PIN 9 =	PIN 32 = E
		PART NUMBER
050T	S	375-83380-002
060T	S	
		H
070T	S	375-83380-001
	H	
080T	S	375-83380-003
	H	
090T	S	
	H	
095T	H	
100T	S	
115T	S	
	H	
130T	H	
130T	S	
150T	S	
	H	
**0170T	S	
**0200T	S	

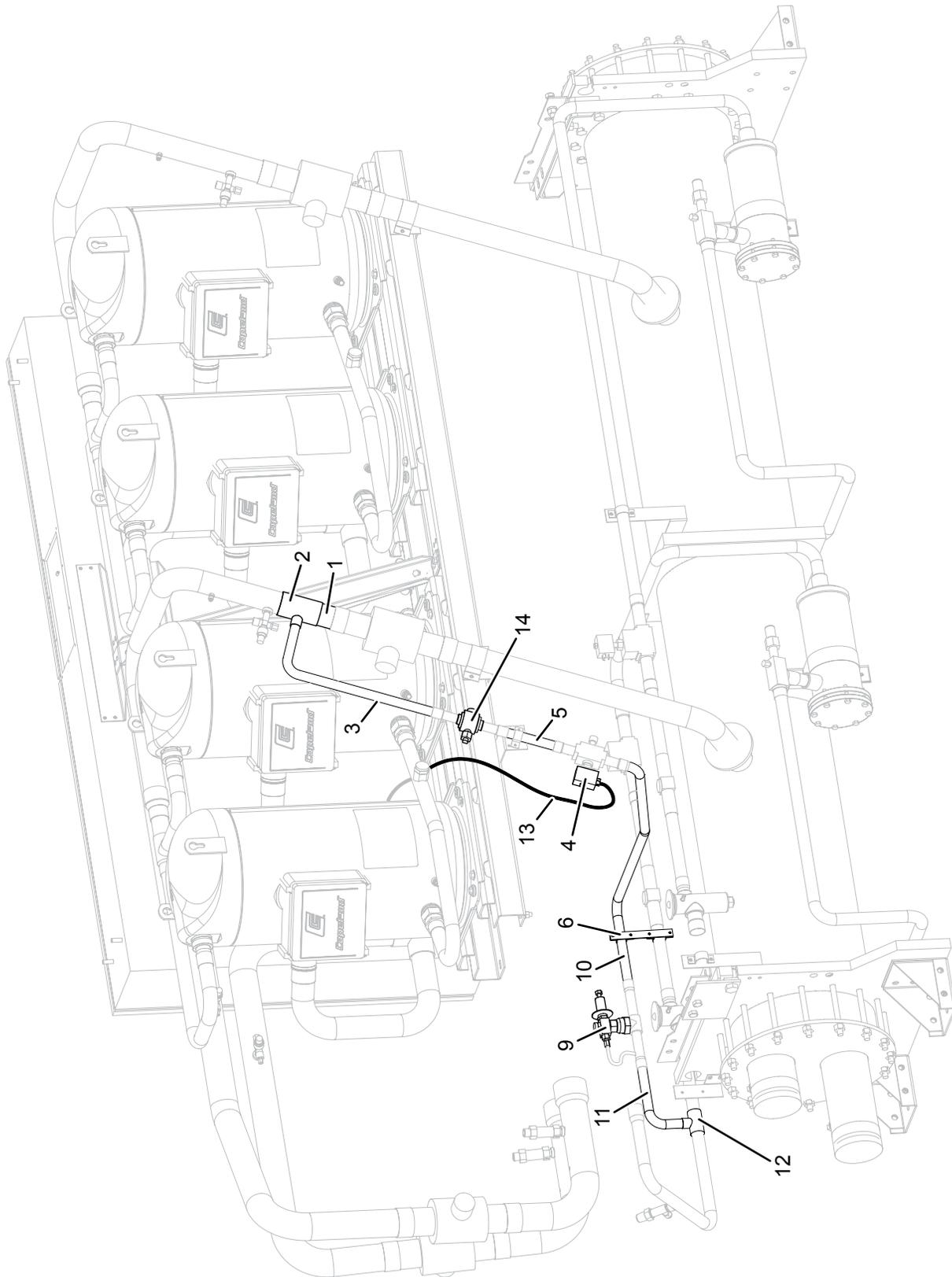
\*\*Pin 32 must be E for 0170T and 200T

**TABLE 22 - HOT GAS BY-PASS KIT**

ITEM	PIN 9 =	MODEL	DESCRIPTION	PART NUMBER	SAP
1	S	050T	Tube Hgbp	075-71642-029	756801
	S	060T, 070T		075-71642-026	756800
	H	060T		075-71642-034	756804
	H	070T		075-71642-043	1151364
	S, H	080T, 100T		075-71642-001	756786
	S	090T		075-71642-001	756786
	H			075-71642-019	756796
	H	095T		075-71642-045	1151366
	S	115T		075-71642-201	756807
	H			075-71642-019	756796
	H	130T		075-71642-006	756788
	S	130T		075-71642-019	756796
	S, H	150T		075-94611-006	762158
	S	170T, 200T		075-71642-006	756788
2	S, H	050T - 115T, 130TSE	Tee Sld	023-02694-000	731670
	S, H	130THE, 150T - 200T		023-08576-000	732018
3	S	050T	Pipe Hot Gas	075-83248-013	759034
	S	060T, 070T		075-83248-012	759033
	H	060T		075-83248-014	759035
	H	070T		075-83248-020	1151367
	S	080T		075-71642-009	756790
	H			075-83248-007	759028
	S, H	090T		075-83248-008	759029
	H	095T		075-83248-022	1151368
	S	100T		075-83248-005	759026
	S	115T		075-83248-018	759039
	H			075-83248-010	759031
	H	130T		075-83248-006	759027
	S	130T		075-83248-011	759032
	S, H	150T		075-83248-009	759030
S	170T	075-83248-006	759027		
S	200T	075-83248-009	759030		
4	S, H	050T - 200T	Valve, Solenoid	025-41558-000	739986
5	S	050T, 060T, 070T, 080T, 090T, 100T, 115T, 130T, 170T	Pipe Hot Gas	075-83248-000	759023
	H	060T		075-83248-001	759024
	H	070T, 080T, 090T, 095T, 115T, 130T		075-83248-000	759023
	S, H	150T		075-94612-000	762160
	S	200T		092-14007-000	1042146
6	S, H	050T - 090T, 100T - 200T	Clamp Tube	066-84635-000	747450
	H	095T		066-83964-000	747424
9	S, H	050T - 200T	Valve Solenoid Hgb-8	025-40962-000	739962

**TABLE 22 - HOT GAS BY-PASS KIT (CONT'D)**

ITEM	PIN 9 =	MODEL	DESCRIPTION	PART NUMBER	SAP
10	S	050T	Tube Hgpb	075-71642-030	756802
	S	060T, 070T		075-71642-025	756799
	H	070T		075-94611-041	847444
	S	080T		075-71642-010	756791
	H			075-71642-044	1151365
	S	090T		075-71642-014	756793
	H			075-94612-205	1151370
	H	095T		075-94611-017	847441
	S	100T		075-71642-003	756787
	S	115T		075-71642-203	756808
	H			075-71642-225	756809
	H	130T		075-71642-007	756789
	S	130T		075-71642-023	756798
	S, H	150T		075-94611-207	762159
	S	170T		075-83248-017	759038
S	200T	092-14007-017	1042147		
11	S	050T, 060T, 070T, 090T, 100T, 130T	Pipe Hot Gas	075-83248-003	759025
	H	060T		075-94612-204	1151369
	H	070T, 090T, 095T, 150T		075-94612-203	762162
	S	080T		075-83248-003	759025
	H			075-94612-204	1151369
	S, H	115T		075-94612-203	762162
	H	130T		075-83248-003	759025
	S	150T		075-94612-003	762161
	S	170T		075-83248-016	759037
	S	200T		075-94612-016	1042145
12	S, H	050T - 080T, 100T - 115T	Tee Sld	023-00284-000	731522
		090T - 095T, 130T - 200T		023-00289-000	371708
13	S, H	050T - 090T, 100T - 115T, 130TSE	Harness 2Hgsv Sys #2 6 Compr	575-67811-218	808126
		095T, 130THE, 150T - 200T	Harness 2Hgsv Sys #2 4 Compr	575-67811-217	808125
14	S, H	050T - 200T	Valve Ball 7/8 Od (C X C)	022-11742-000	731434



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**FIGURE 25 - HOT GAS BY-PASS KIT**

**TABLE 23 - LANGUAGE KIT**

DESCRIPTION	PART NUMBER	SAP
SWITCH KEYPAD English	024-36082-007	736305
Label Keypad French	035-21173-003	372339
Label Keypad German	035-21173-002	372338
Label Keypad Italian	035-21173-005	372341
Label Keypad Spanish	035-21173-004	372340
Instruction Manual English	035-21965-101	745377
Instruction Manual French	035-21965-101	745377
Instruction Manual German	035-21965-200	745378
Instruction Manual Italian	035-21965-400	674053
Instruction Manual Spanish	035-21965-101	745377

**TABLE 24 - E-LINK KIT**

DESCRIPTION	PART NUMBER	SAP
E-Link W/Serial Ports (Lon)	025-44384-000	740489
E-Link IPU-II Installation Kit	025-44659-000	740575

**TABLE 25 - CONTROL TRANSFORMER KIT**

MODELS	PIN 11 & 12	PART NUMBER	SAP
All Models	17	375-75132-101	792474
	28	375-75132-102	792475
	40	375-75132-103	792476
	46	375-75132-105	792478
	50*	N/A	N/A
	58	375-75132-106	792479

Control Transformer Is Standard On All 50 Hz Ce Models

**TABLE 26 - RECOMMENDED MOTOR PROTECTOR**

ITEM	DESCRIPTION	PART NUMBER
MOTOR PROTECTOR	Copeland	025-38995-000
	Bitzer	TBD

**TABLE 27 - RECOMMENDED OIL TYPE**

ITEM	REF.	DESCRIPTION	1 QUART CAN	(6) 1 GALLON	5 GALLON
OIL <sup>S</sup>	R-410A	Oil, Copeland Compressor (Type 'V')	n/a	011-00948-000	011-00949-000
		Oil, Bitzer Compressor (Type 'PVE')*	011-00981-000	n/a	011-00982-000

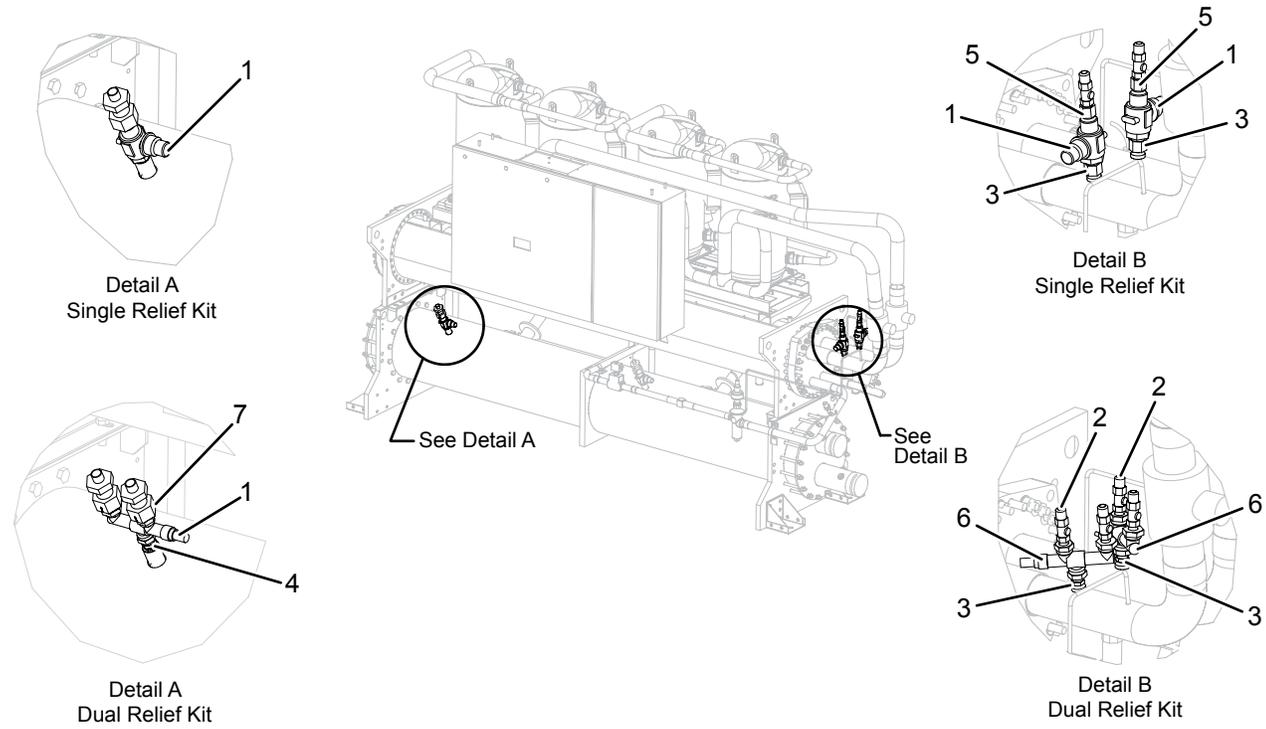
<sup>S</sup> = Recommended Spare Parts

\*Note: Type 'PVE' synthetic oil used on models 170T AND 200T only.

**TABLE 28 - PRESSURE RELIEF VALVE KIT**

ITEM	PIN 31 =	DESCRIPTION	PART NUMBER	SAP
1	P, F	Valve Stop 1/2"Npt	022-09802-000	371678
	R, G	Valve 1/2" 3-Way Dual Shut Off	022-11717-000	731430
2	R, G	Valve Rel.3/8Mptx1/2Fl 400Psig	022-11704-000	731425
3	P, F	Adaptor Brass 3/8 Npt X1/2 Npt	023-23529-000	733802
	R, G	Nipple Hex Brass 3/8" Npt X	023-19218-000	401273
4	R, G	Nipple Hex Brass 1/2" Npt X	023-19217-000	401272
5	P, F	Adaptor Brass 1/2 Npt X3/8 Npt	023-23530-000	733803
6	R, G	Valve 3/8" 3-Way Dual Shut Off	022-11716-000	401271
7	R, G	Valve Relief, 1/2 Npte X 5/8	022-11714-000	516659

Option not available on 60 hz models



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**FIGURE 26 - PRESSURE RELIEF VALVE KIT**

## VIBRATION ISOLATORS

**TABLE 29 - VIBRATION ISOLATORS PART NUMBERS**

<b>1" DEFLECTION (PIN 54 = 1)</b>			
<b>MODEL QWC3</b>	<b>VENDOR PART NUMBER</b>	<b>COLOR</b>	<b>PART NUMBER</b>
050TSE	CP-1D-1200	GRAY	029-25334-004
060TSE, 070TSE	CP-1D-1360	WHITE	029-25334-005
060THE, 070THE, 080TSE, 080THE, 090TSE, 100TSE, 115TSE	CP-1D-1785N	GRAY/RED	029-25334-006
090THE, 095THE, 115THE, 130THE, 130TSE, 150TSE, 150THE	C2P-1D-2400	GRAY	029-25334-010
170TSE	C2P-1D-2720	WHITE	029-25334-012
200TSE	C2P-1D-3570N	GRAY/RED	029-25334-013
<b>NEOPRENE (PIN 54 = N)</b>			
<b>MODEL</b>	<b>VENDOR PART NUMBER</b>	<b>COLOR</b>	<b>PART NUMBER</b>
050TSE, 060TSE, 060THE, 070TSE, 070THE, 080TSE, 080THE, 090TSE, 100TSE, 115TSE, 115THE, 130TSE	RD-4	BRICK RED-WR	029-25335-002
090THE, 095THE, 130THE, 150TSE, 150THE, 170TSE, 200TSE	RD-4	CHARCOAL-WR	029-25335-004
<b>SEISMIC (PIN 54 = S)</b>			
<b>MODEL</b>	<b>VENDOR PART NUMBER</b>	<b>COLOR</b>	<b>PART NUMBER</b>
050TSE	Y2RSI-2D-1200N	RED	029-25336-010
060TSE, 060THE, 070TSE, 070THE, 080TSE, 090TSE, 115TSE	Y2RSI-2D-1690	PINK	029-25336-011
080THE, 090THE, 095THE, 100TSE, 115THE, 130THE, 130TSE, 150TSE, 150THE, 170TSE	Y2RSI-2D-2640N	PINK/G	029-25336-012
200TSE	Y2RSI-2D-2870N	PINK/G	029-25336-013

## QWC3 CHILLER OPTIONS

**TABLE 30 - FIELD INSTALLED OPTIONS PART NUMBERS**

QWC3	SOUND BLANKET PART NUMBER		FLOW SWITCH	VICTAULIC FLANGE KIT		HOT GAS BYPASS KIT		DIFFERENTIAL PRESSURE SWITCH	SAFETY RELIEF VALVE	
	Pin 9 = S	Pin 9 = H		Pin 9 = S	Pin 9 = H	Pin 9 = S	Pin 9 = H			
	010-06507		024-26116	Pin 9 = S	Pin 9 = H	Pin 9 = S	Pin 9 = H	025-30919	022-11714	
<b>050T</b>	-007	N/A	-100	023-19049-000*	N/A	375-75145-012	N/A	-000	-000	
<b>060T</b>	-002	-010			023-19048-000	023-19048-000	375-75145-013			375-75145-014
<b>070T</b>	-001	-010			N/A	N/A	375-75145-020			375-75145-021
<b>080T</b>	-001	-012		023-19048-000	023-19048-000	375-75145-001	375-75145-021			
<b>090T</b>	-000	N/A		023-19049-000	023-19046-000	375-75145-001	375-75145-021			
<b>095T</b>	N/A	-010		023-19048-000	023-24297-000	375-75145-003	375-75145-022			
<b>100T</b>	-000			N/A	023-19046-000	N/A	375-75145-023			
<b>115T</b>				023-19048-000	N/A	375-75145-005	N/A			
<b>130THE</b>	N/A	-012		023-19049-000	023-24297-000	375-75145-118	375-75145-006			
<b>130TSE</b>	-000			N/A	023-19046-000	N/A	375-75145-007			
<b>150T</b>				023-24297-000	N/A	375-75145-008	N/A			
<b>170T</b>				023-19046-000	023-24297-000	375-75145-009	375-75145-107			
<b>200T</b>				N/A	023-19046-000	375-91383-000	N/A			
						375-91384-000				

\*Indicates that the flange kit does not include condenser flanges.

## RECOMMENDED SPARE PARTS

### MODEL QWC3 STYLE A AIR COOLED SCREW CHILLERS SUGGESTED SPARE PARTS LIST FOR CRITICAL DUTY APPLICATIONS

**TABLE 31 - RECOMMENDED SPARE PARTS**

DESCRIPTION	PART NUMBER	SAP
Valve, Thermal Expansion	025-40900-004	739942
	025-40900-005	739943
	025-40900-006	739944
	025-40900-007	739945
	025-40900-008	739946
Core, Dehydrator	026-37540-000	740964
Oil, Copeland Compressor - (6) 1 Gallon (Type 'V')	011-00948-000	62387
Oil, Copeland Compressor - 5 Gallon (Type 'V')	011-00949-000	729001
Oil, Bitzer Compressor - 1 Quart (Type 'PVE')	011-00981-000	729008
Oil, Bitzer Compressor - 5 Gallon (Type 'PVE')	011-00982-000	729009
Flash Card	031-02755-001	744083
	031-02755-004	744085
Sensor, Water Temp. (EWT)	025-40273-010	519503
Sensor, Water Temp. (LWT)	025-40273-009	519502
Transducer, Discharge Pressure (0-650psi)	025-41756-003	392055
Transducer, Suction Pressure (0-400psi)	025-41756-002	392054

All parts should be purchased from your local Quantech Service Representative.

