



AIR-COOLED LIQUID CHILLERS HERMETIC SCROLL

RENEWAL PARTS

New Release

Form: QTC2-RP1 (215)

**QTC2015T, 020T, 025T, 030T, 035T, 040T, and 045T
STYLE E (60 HZ)
15-46 TON**



DUAL CIRCUIT



SINGLE CIRCUIT

R-410A



Issue Date:
February 16, 2015



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.

SAFETY SYMBOLS

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



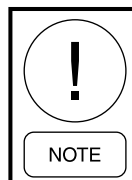
Indicates a possible hazardous situation which will result in death or serious injury if proper care is not taken.



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



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



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



External wiring, unless specified as an optional connection in the manufacturer's product line, is not to be connected inside the control cabinet. Devices such as relays, switches, transducers and controls and any external wiring must not be installed inside the micro panel. All wiring must be in accordance with Quantech's 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's 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 the nearest Quantech sales office.

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

verify whether the equipment has been modified and if current literature is available from the owner of the equipment prior to performing any work on the chiller.

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.

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

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

EUROPE

HVAC Parts Centre (Europe)

Telephone: +44 (0) 1268 246 400

Email: ALLParts@jci.com

UNIT NOMENCLATURE NAMEPLATE ENGINEERING DATA

BASIC PART NUMBER

QTC2035TEE46XEA

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15			
BASE PRODUCT TYPE				NOMINAL CAPACITY				UNIT DESIGNATOR	REFRIGERANT	VOLTAGE/STARTER			DESIGN/DEVELOPMENT LEVEL				
QTC2 : Quantech : Air Cooled : Scroll Chiller				#	#	#	#	Tons/Kw 035T to 045T	E High Efficiency	E :R-410A	1	7	:	200/3/60	E	:	Design Series E
											2	8	:	230/3/60			
											4	0	:	380/3/60	B	:	Engineering Change or PIN Level
											4	6	:	460/3/60			
											5	0	:	575/3/60			
											5	8	X	:	Across the Line		

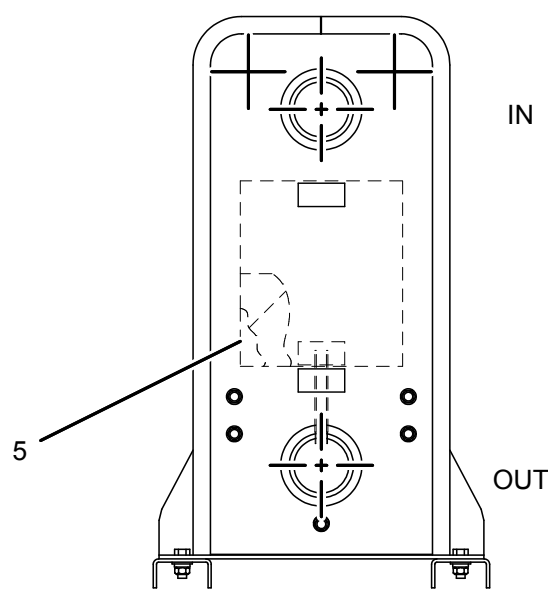
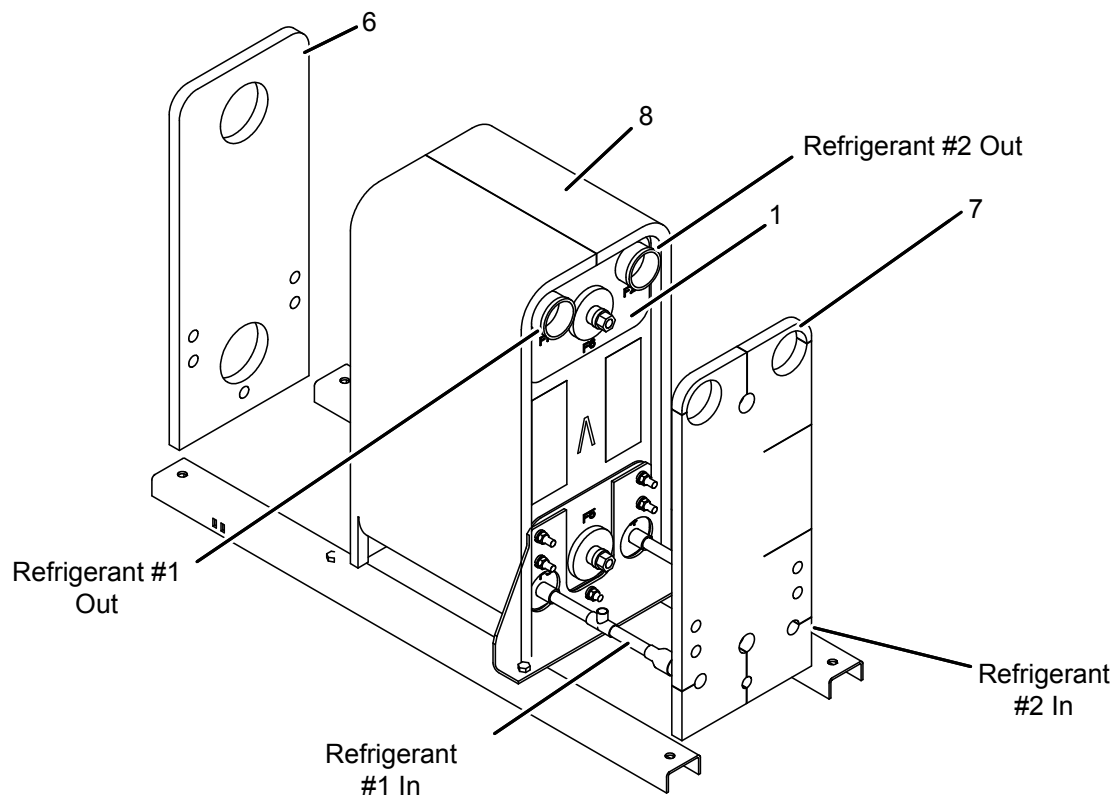
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TABLE 1 - SWEP HEAT EXCHANGER - STANDARD INSULATION

ITEM	DESCRIPTION	HEAT EXCHANGER		PART NUMBER*	MODELS	QUANTITY	FIGURE
		STANDARD	REMOTE				
1	Heat Exchanger	X	X	375 94523 000	QTC2015T	1	1
		X	X	375 94525 000	QTC2020T - QTC2030T	1	
		X	N/A	375 94531 000	QTC2035T	1	
		N/A	X	392 01184 000	QTC2035T & QTC2045T	1	
		X	N/A	375 94533 000	QTC2040T	1	
		N/A	X	392 01186 000	QTC2040T	1	
		X	N/A	375 94535 000	QTC2045T	1	
5	Heater, 120 Volts, 100 Watts	X	N/A	025 40572 000	ALL	1	
6	Cover Water Side	X	X	075 70428 112	QTC2015T - QTC2030T	1	
		X	X	075 70428 141	QTC2035T - QTC2045T	1	
7	Cover Refrigerant Side	X	X	075 70428 112	QTC2015T - QTC2030T	1	
		X	X	075 70428 141	QTC2035T - QTC2045T	1	
8	Cover, (Standard Insulation)	X	X	075 70430 118	QTC2015T	1	
		X	X	075 70430 121	QTC2020T - QTC2030T	1	
		X	X	075 70430 155	QTC2035T & QTC2045T	1	
		X	X	075 70430 156	QTC2040T	1	

* Part numbers for heat exchangers include mounting bracket, wells and rails. See *Figure 4 - Sweb Heat Exchanger - (Standard and Double Insulation)* QTC2035T - QTC2045T on page 13 and related component part numbers. The TXV's are not included with the heat exchanger.



QTC2040T SHOWN

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FIGURE 1 - SWEP HEAT EXCHANGER - STANDARD INSULATION

TABLE 2 - SWEP HEAT EXCHANGER - DOUBLE INSULATION

ITEM	DESCRIPTION	HEAT EXCHANGER		PART NUMBER*	MODELS	QUANTITY	FIGURE
		STANDARD	REMOTE				
1	Heat Exchanger	X	X	375 94523 000	QTC2015T	1	2
		X	X	375 94525 000	QTC2020T - QTC2030T	1	
		X	N/A	375 94531 000	QTC2035T	1	
		N/A	X	392 01184 000	QTC2035T & QTC2045T	1	
		X	N/A	375 94533 000	QTC2040T	1	
		N/A	X	392 01186 000	QTC2040T	1	
		X	N/A	375 94535 000	QTC2045T	1	
5	Heater, 120 Volts, 100 Watts	X	N/A	025 40572 000	ALL	1	
6	Cover Water Side	X	X	075 70428 112	QTC2015T - QTC2030T	2	
		X	X	075 70428 141	QTC2035T - QTC2045T	2	
7	Cover Refrigerant Side	X	X	075 70429 112	QTC2015T - QTC2030T	2	
		X	X	075 70429 141	QTC2035T - QTC2045T	2	
8	Cover Inside, (Double Insula- tion)	X	X	075 70431 118	QTC2015T	1	
		X	X	075 70431 121	QTC2020T - QTC2030T	1	
		X	X	075 70431 155	QTC2035T & QTC2045T	1	
		X	X	075 70431 156	QTC2040T	1	
9	Cover Outside (Double Insula- tion)	X	X	075 70432 118	QTC2015T	1	
		X	X	075 70432 122	QTC2020T	1	
		X	X	075 70432 121	QTC2025T & QTC2030T	1	
		X	X	075 70432 155	QTC2035T & QTC2045T	1	
		X	X	075 70432 156	QTC2040T	1	

* Part numbers for heat exchangers include mounting bracket, wells and rails. See *Figure 4 - Sweb Heat Exchanger - (Standard and Double Insulation) QTC2035T - QTC2045T on page 13* and related component part numbers. The TXV's are not included with the heat exchanger.

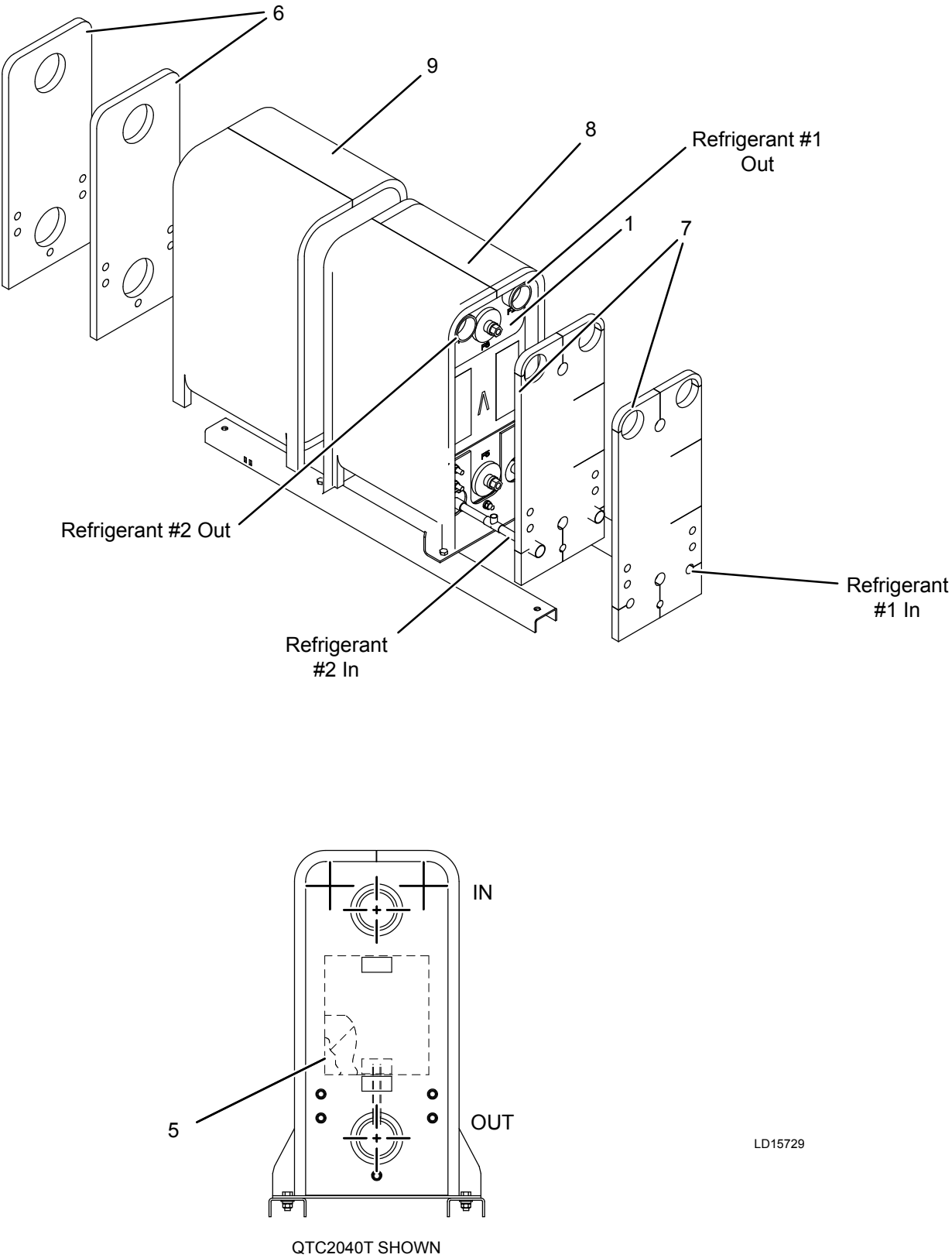


FIGURE 2 - SWEP HEAT EXCHANGER - DOUBLE INSULATION

TABLE 3 - SWEP HEAT EXCHANGER PARTS (STANDARD AND DOUBLE INSULATION)
QTC2015T - QTC2030T

ITEM	DESCRIPTION	PART NUMBER	MODELS	QUANTITY	FIGURE
2	Bracket, Heat Exchanger	075 61084 102	QTC2015T	2	3
		075 61084 103	QTC2020T - QTC2030T		
3	HHCS, 0.375-16 X 1.000 Gr 5 Emp	021 19305 016	QTC2015T - QTC2030T	4	
4	Washer, Plain, 3/8 ID X 7/8 OD	021 09983 000	QTC2015T - QTC2030T	8	
5	Lockwasher, Spg Hel, 3/8 Reg	021 19306 000	QTC2015T - QTC2030T	12	
6	Nut, Hex, 3/8 -16unc-2b	021 19307 000	QTC2015T - QTC2030T	8	
7	Bracket, Heat Exchanger	075 61082 101	QTC2015T - QTC2030T	2	
9	Screw, Cap Hex, 5/16 -18unc	021 16976 000	QTC2015T - QTC2030T	4	
12	Well Thermo	026 32328 000	QTC2015T - QTC2030T	2	
13	Washer, Plain, 7/16 ID X 1 OD	021 16140 000	QTC2015T - QTC2030T	4	

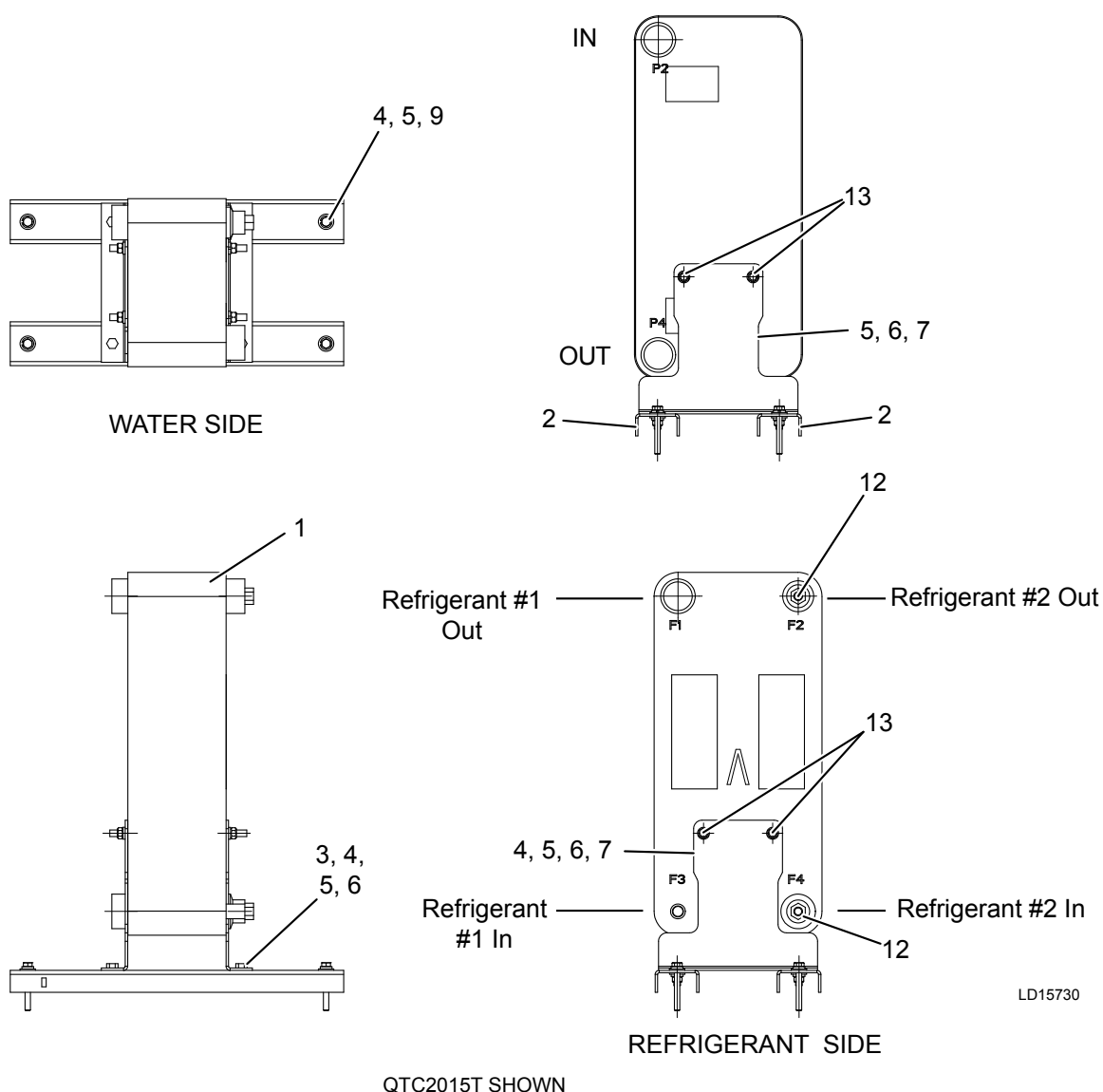
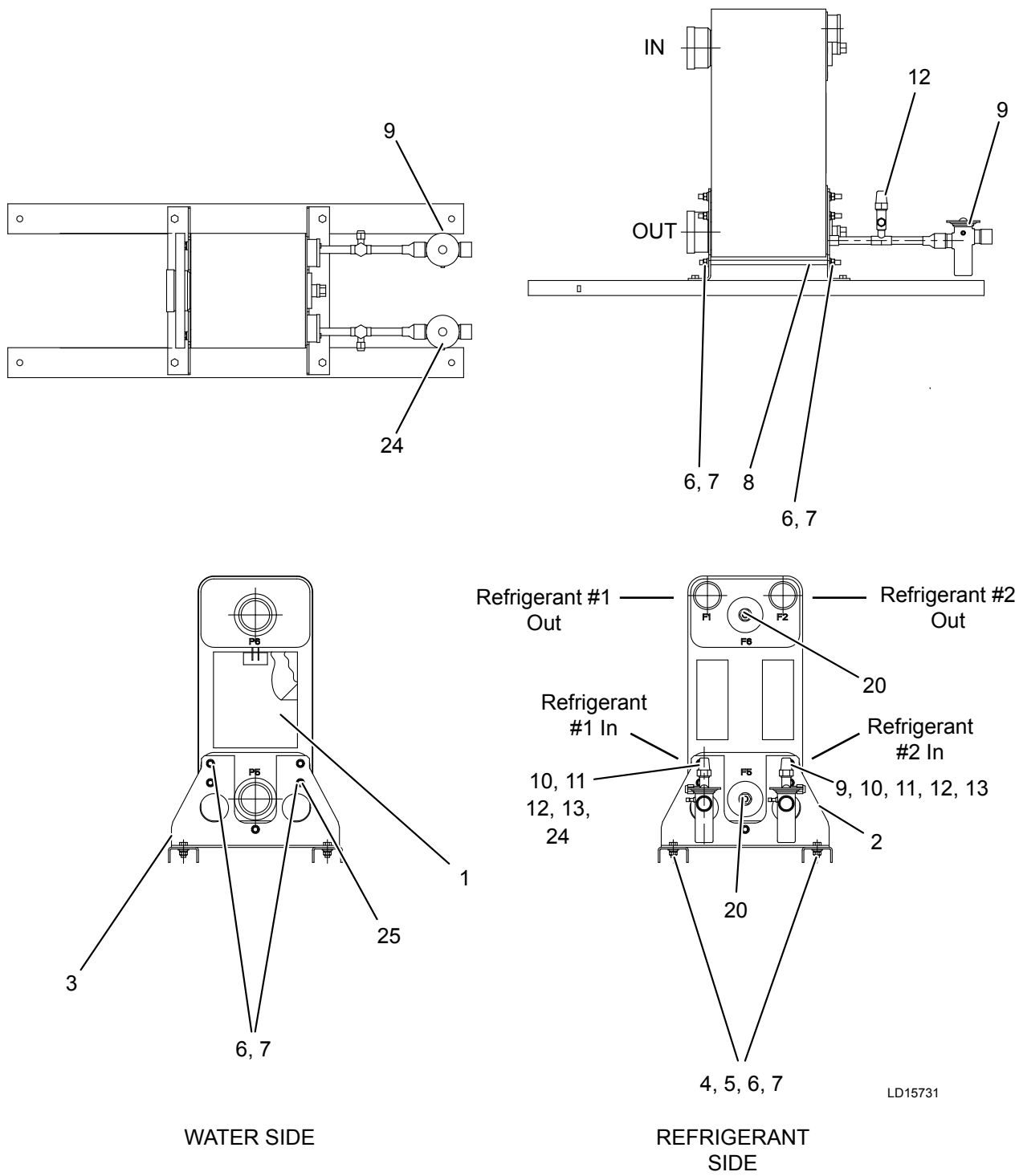


FIGURE 3 - SWEP HEAT EXCHANGER - (STANDARD AND DOUBLE INSULATION) QTC2015T - QTC2030T

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TABLE 4 - SWEP HEAT EXCHANGER AND TXV PARTS (STANDARD AND DOUBLE INSULATION)
QTC2035T - QTC2045T

ITEM	DESCRIPTION	PART NUMBER	MODELS	QUANTITY	FIGURE
2	Bracket, Heat Exchanger	075 58280 102	QTC2035T - QTC2045T	2	4
3	Rail, Heat Exchanger	075 61534 101	QTC2035T & QTC2045T	2	
		075 61534 102	QTC2040T		
4	HHCS, 0.375-16 X 1.000 Gr 5 Emp	021 19305 016	QTC2035T - QTC2045T	4	
5	Washer, Plain, 3/8 ID X 7/8 OD X	021 09983 000	QTC2035T - QTC2045T	4	
6	Lockwasher, Spg Hel, 3/8 Reg	021 19306 000	QTC2035T - QTC2045T	14	
7	Nut, Hex, 3/8 -16unc-2b	021 19307 000	QTC2035T - QTC2045T	14	
8	Rod, Tie, Continuous Thread, 3/8	021 31666 001	QTC2040T	1	
		021 31666 002	QTC2035T & QTC2045T		
9	Valve, TXV, Tgel 20-23	025 40900 002	QTC2035T & QTC2040T	1	
	Valve, TXV, Tgel 40-31	025 40900 003	QTC2045T		
10	Pipe, Liquid	075 65211 141	QTC2035T - QTC2045T	4	
11	Tee, Sld C X C X C 5/8 X	023 07965 000	QTC2035T - QTC2045T	2	
12	Valve, Charging, Brass	022 09754 000	QTC2035T - QTC2045T	2	
13	Red Sld Ftg X C 1-1/8 X	023 09849 000	QTC2035T - QTC2045T	2	
20	Well Thermo	026 32328 000	QTC2035T - QTC2045T	2	
24	Valve, TXV, Tgel 20-23	025 40900 002	QTC2035T & QTC2040T	1	
	Valve, TXV, Tgel 40-31	025 40900 003	QTC2045T		
25	Washer, Plain, 7/16 ID X 1 OD X	021 16140 000	QTC2035T - QTC2045T	8	



QTC2035T SHOWN

FIGURE 4 - SWEP HEAT EXCHANGER - (STANDARD AND DOUBLE INSULATION) QTC2035T - QTC2045T

TABLE 5 - CONDENSER COIL COMPONENTS (QTC2015-QTC2030T)

ITEM	DESCRIPTION	QUANTITY	QTC2015T	QTC2020T	QTC2025T and QTC2030T	FIGURE
ALUMINUM FIN COILS						
1	Coil Module*	1	375-58294-103	375-58294-203	375-58294-303	5
2		1	375-58294-104	375-58294-204	375-58294-304	
COPPER COILS						
1	Coil Module*	1	375-58294-113	375-58294-213	375-58294-313	5
2		1	375-58294-114	375-58294-214	375-58294-314	
BLACK FIN COILS						
1	Coil Module*	1	375-58294-123	375-58294-223	375-58294-323	5
2		1	375-58294-124	375-58294-224	375-58294-324	
PHENOLIC COILS						
1	Coil Module*	1	375-58294-133	375-58294-233	375-58294-333	5
2		1	375-58294-134	375-58294-234	375-58294-334	

*Note: Coil Module includes coil and headers.

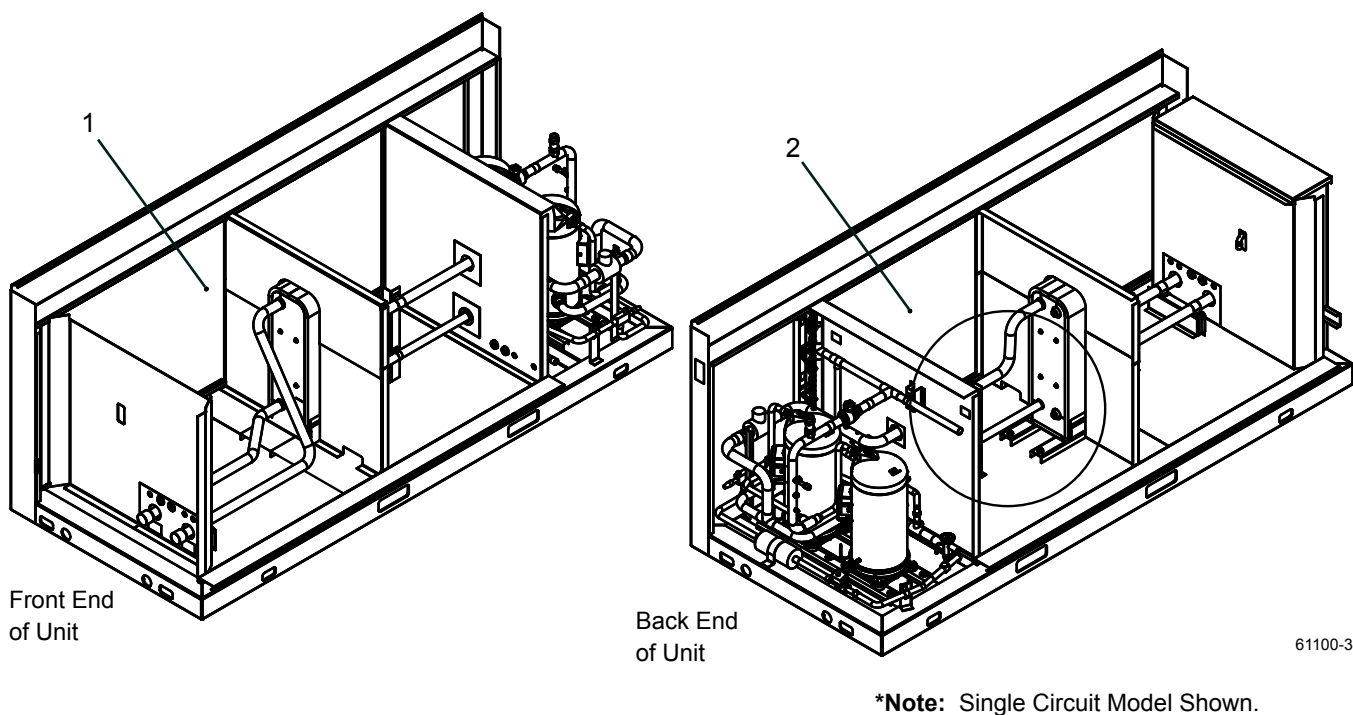
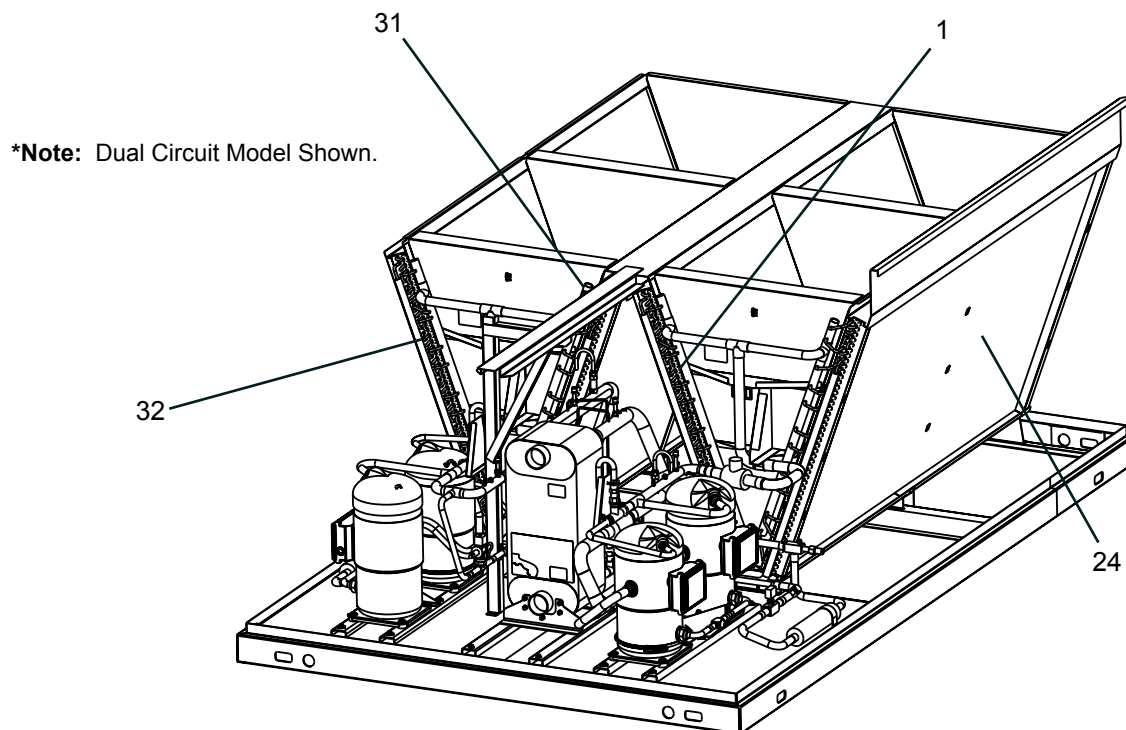


FIGURE 5 - CONDENSER COIL LAYOUT

TABLE 6 - CONDENSER COIL COMPONENTS (QTC2035T - QTC2045T)

ITEM	DESCRIPTION	QUANTITY	QTC2035T and QTC2040T	QTC2045T	FIGURE
ALUMINUM FIN COILS					
1	Coil Module*	1	375-58294-202	375-58294-401	6
24		1	375-58294-201	375-58294-402	
31		1	375-58294-205	375-58294-404	
32		1	375-58294-206	375-58294-403	
COPPER COILS					
1	Coil Module*	1	375-58294-212	375-58294-411	6
24		1	375-58294-211	375-58294-412	
31		1	375-58294-215	375-58294-414	
32		1	375-58294-216	375-58294-413	
BLACK FIN COILS					
1	Coil Module*	1	375-58294-222	375-58294-421	6
24		1	375-58294-221	375-58294-422	
31		1	375-58294-225	375-58294-424	
32		1	375-58294-226	375-58294-423	
PHENOLIC COILS					
1	Coil Module*	1	375-58294-232	375-58294-431	6
24		1	375-58294-231	375-58294-432	
31		1	375-58294-235	375-58294-434	
32		1	375-58294-236	375-58294-433	

*Note:Coil Module includes coil and headers.



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FIGURE 6 - CONDENSER COIL LAYOUT

TABLE 7 - FAN COMPONENTS - MODELS QTC2015T AND QTC2020T

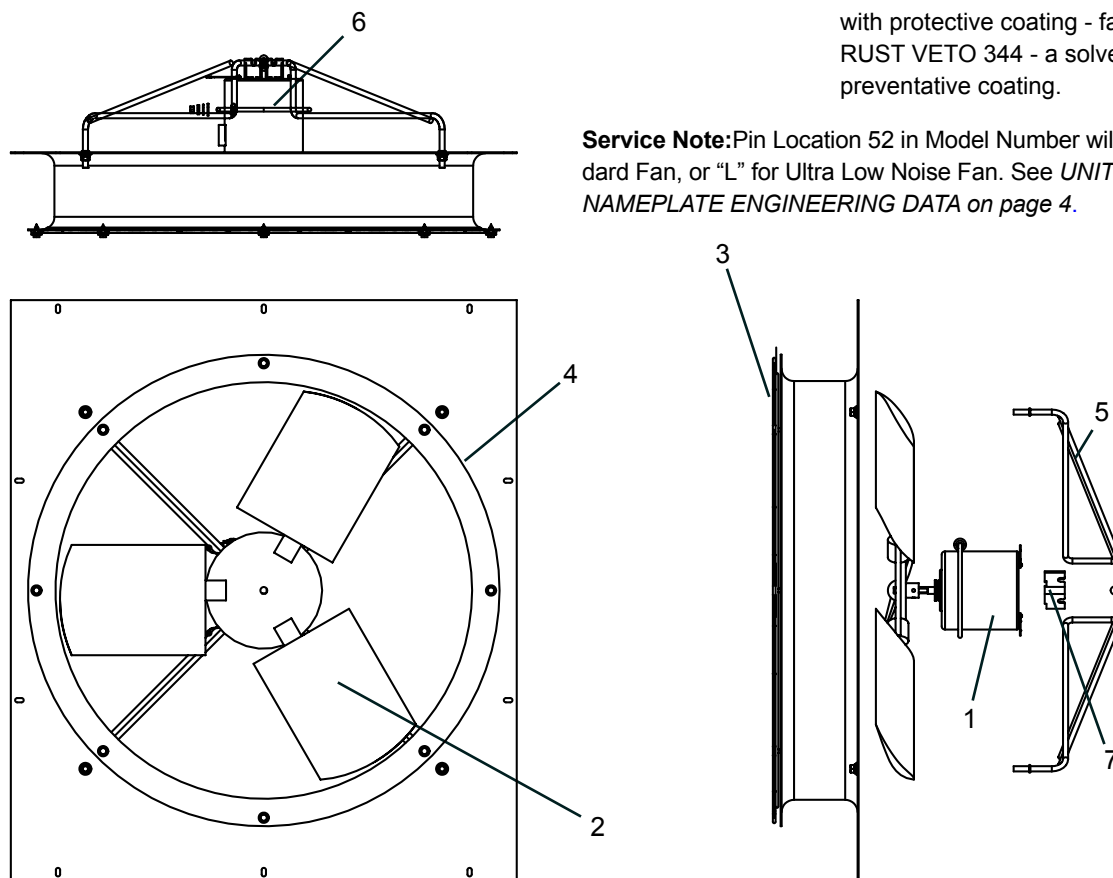
ITEM	DESCRIPTION	VOLTAGE CODE	PIN 20=	PART NUMBER	FIGURE
1 ^s	Motor, Fan, .5 HP	-17 & -28	A, H	024-35427-002	7
		-40		024-35427-004	
		-46		024-35427-001	
		-58	A	024-35427-001	
		-58	H	024-35427-003	
2 ^s	Blade	All	All	026-43008-000	
3	Guard	All	All	026-37521-000	
4	Orifice	All	All	026-43010-000	
5	Support, Fan	All	All	026-43007-000	
6	Support, Ring	All	All	026-38369-000	
7	Hub, Square	All	All	026-41939-000	

^s = Recommended Spare Parts

Service Note:

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

Service Note: Pin Location 52 in Model Number will be "X" for Standard Fan, or "L" for Ultra Low Noise Fan. See *UNIT NOMENCLATURE NAMEPLATE ENGINEERING DATA* on page 4.



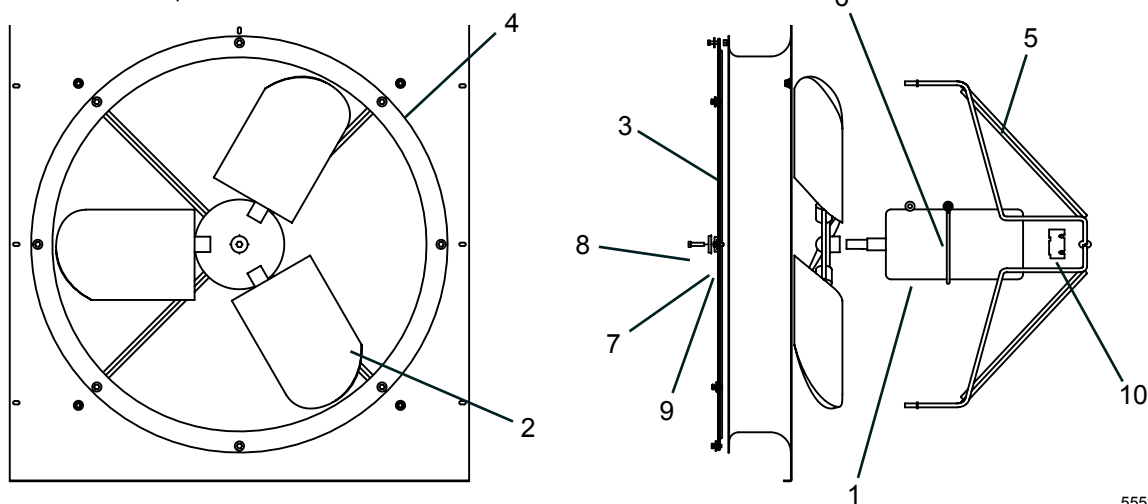
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FIGURE 7 - FAN COMPONENTS - MODELS QTC2015T AND QTC2020T

TABLE 8 - FAN COMPONENTS - QTC2025T – QTC2045T

ITEM	DESCRIPTION	MODELS	VOLTAGE CODE	PIN 20=	PART NUMBER	FIGURE
1 ^S	Motor, Fan, 2 HP	All	-17	A, H	024-27322-103	8
			-28		024-27322-106	
			-40		024-27322-104	
			-46		024-27322-207	
			-58	A	024-27322-207	
			-58	H	024-27322-102	
2 ^S	Blade	QTC2025T, QTC2030T, QTC2045T	All	A, H	026-41594-000	
		QTC2035T, QTC2040T			026-41592-000	
3	Guard	QTC2025T, QTC2030T, QTC2045T	All	A, H	026-46008-000	
		QTC2035T, QTC2040T			026-37521-000	
4	Orifice	QTC2025T, QTC2030T, QTC2045T	All	A, H	026-45789-000	
		QTC2035T, QTC2040T			026-42029-000	
5	Support, Fan	QTC2025T - QTC2040T	All	A, H	026-41937-000	
		QTC2045T	17, 28, 40	A, H	026-41937-000	
		QTC2045T	58	H	026-41937-000	
		QTC2045T	46	A, H	026-41938-000	
		QTC2045T	58	A	026-41938-000	
6	Support, Ring	All	All	A, H	026-36367-000	
7	Spacer (.375 I.D.)	All	All	A, H	075-29007-000	
8	Screw, Cap (M8x125)	All	All	A, H	021-18494-000	
9	Spacer (1.406 I.D.)	All	All	A, H	075-40484-000	
10	Hub, Square	QTC2025T, QTC2030T, QTC2045T	17, 28, 40	A, H	026-41939-001	
			58	H	026-41939-001	
		QTC2025T, QTC2030T	46	A, H	026-41939-002	
			58	A	026-41939-002	
		QTC2045T	46	A, H	026-41939-005	
			58	A	026-41939-005	
		QTC2035T, QTC2040T	All	A, H	026-41939-001	

^S = Recommended Spare Parts



55596-000

Service Note: Pin Location 52 in Model Number will be "X" for Standard Fan, or "L" for Ultra Low Noise Fan. See *UNIT NOMENCLATURE NAMEPLATE ENGINEERING DATA* on page 4.

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

FIGURE 8 - FAN COMPONENTS - QTC2025T – QTC2045T

TABLE 9 - REFRIGERANT PIPING COMPONENTS (SINGLE SYSTEM)

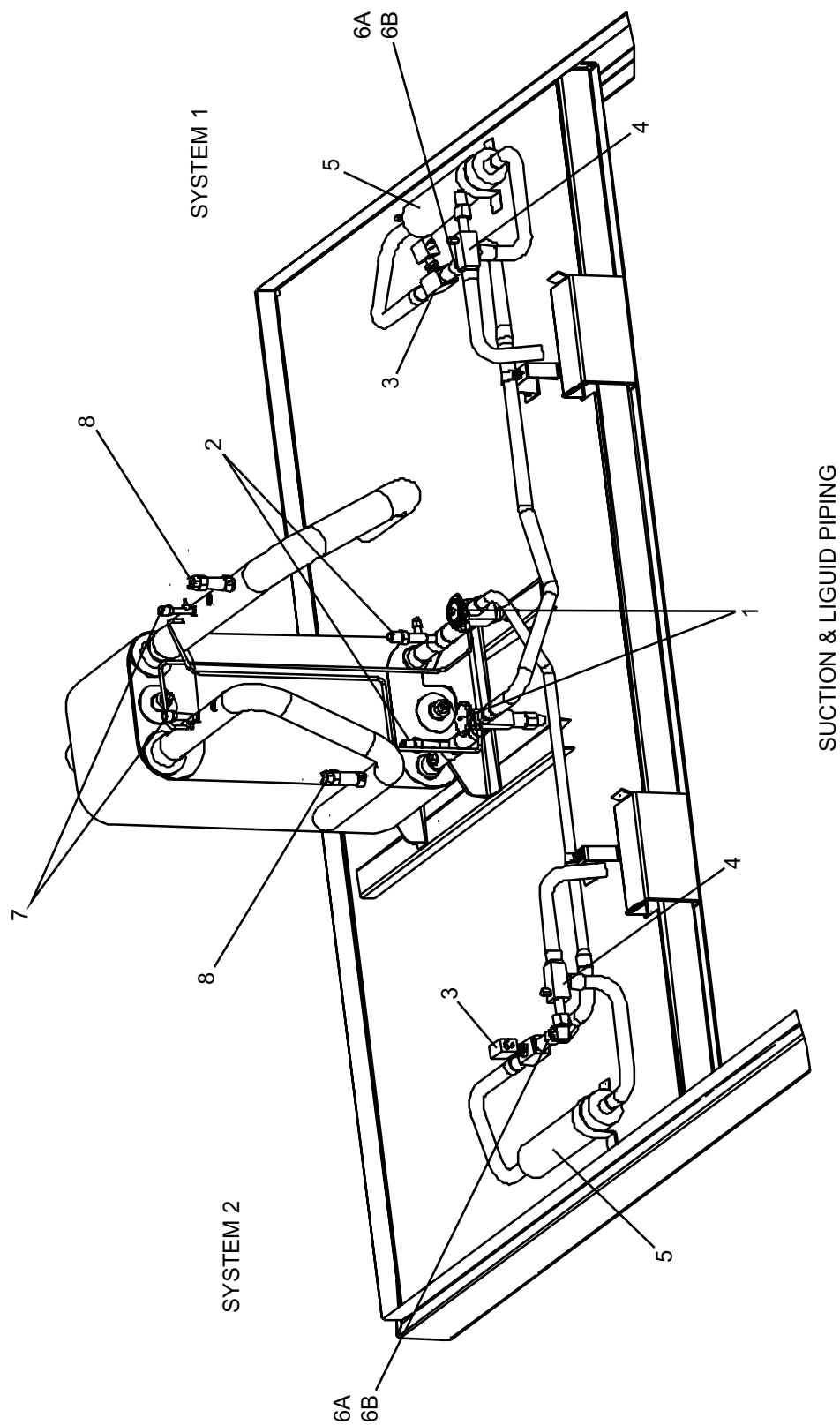
ITEM	QUANTITY	DESCRIPTION	MODEL	COOLER	PART NUMBER	FIGURE
1 ^S	1	Valve, Thermal Expansion	QTC2015T	Standard	025-40900-001	9
			QTC2020T		025-40900-002	
			QTC2025T		025-40900-003	
			QTC2030T		025-40900-006	
2	2	Valve, Charging (Liquid Line)	All	Standard	022-09754-000	
3	1	Valve, Solenoid (Liquid Line)	QTC2015T & QTC2020T	Standard	025-42077-000	
			QTC2025T & QTC2030T		025-41558-000	
4 ^S	1	Valve, Stop (Liquid Line)	QTC2015T & QTC2020T	All	022-11306-000	
			QTC2025T & QTC2030T		022-10022-000	
5	1	Drier	QTC2015T & QTC2020T	Standard	026-35634-000	
			QTC2025T & QTC2030T		026-20145-000	
6A	1	Moisture Indicator	All	Standard	026-12992-000	
7	1	Valve, Access (Suction)	All	All	022-00009-000	
8	1	Valve, Relief (Suction)	All	Standard	022-10686-001	
10A	1	Valve, Ball (Suction)	QTC2015T & QTC2020T	All	022-08883-000	10
			QTC2025T & QTC2030T		022-09752-000	
11	1	Valve, Access (Discharge)	All	All	022-00009-000	11
12A	1	Valve, Ball (Discharge)	All	All	022-09750-000	
13	2	Compressor	See Tables 12 and 13			
14	1	Valve, Relief (Discharge)	All	Standard	022-09754-000	

^S = Recommended Spare Part

TABLE 10 - REFRIGERANT PIPING COMPONENTS (DUAL SYSTEM)

ITEM	QUANTITY	DESCRIPTION	MODEL	COOLER	SYSTEM	YCAL0052	FIGURE
3	2	Valve, Solenoid (Liquid Line)	All	Standard	Both	025-42077-000	9
4s	2	Valve, Stop (Liquid Line)	All	All		022-10022-000	
5	2	Drier	All	Standard		026-36510-000	
6A	2	Moisture Indicator, Body	QTC2035T & QTC2040T	All		026-32397-000	
			QTC2045T	Standard			
6B	2	Moisture Indicator, Sight Glass Cap	QTC2035T & QTC2040T	All		026-32800-000	
			QTC2045T	Standard			
7	2	Valve, Access (Suction)	All	All		022-00009-000	
8	2	Valve, Relief (Suction)	All	Standard		022-10686-001	
10A	1	Valve, Ball (Suction)	All	All		022-09752-000	10
10B	1		All	All			
11	2	Valve, Access (Discharge)	All	All		022-00009-000	11
12A	1	Valve, Ball (Discharge)	All	All		022-09750-000	
12B	1		All	All			
13	4	Compressor	All	See Tables 12 and 13			

^S = Recommended Spare Part



LD19205

FIGURE 9 - REFRIGERANT PIPING COMPONENTS (SUCTION AND LIQUID)

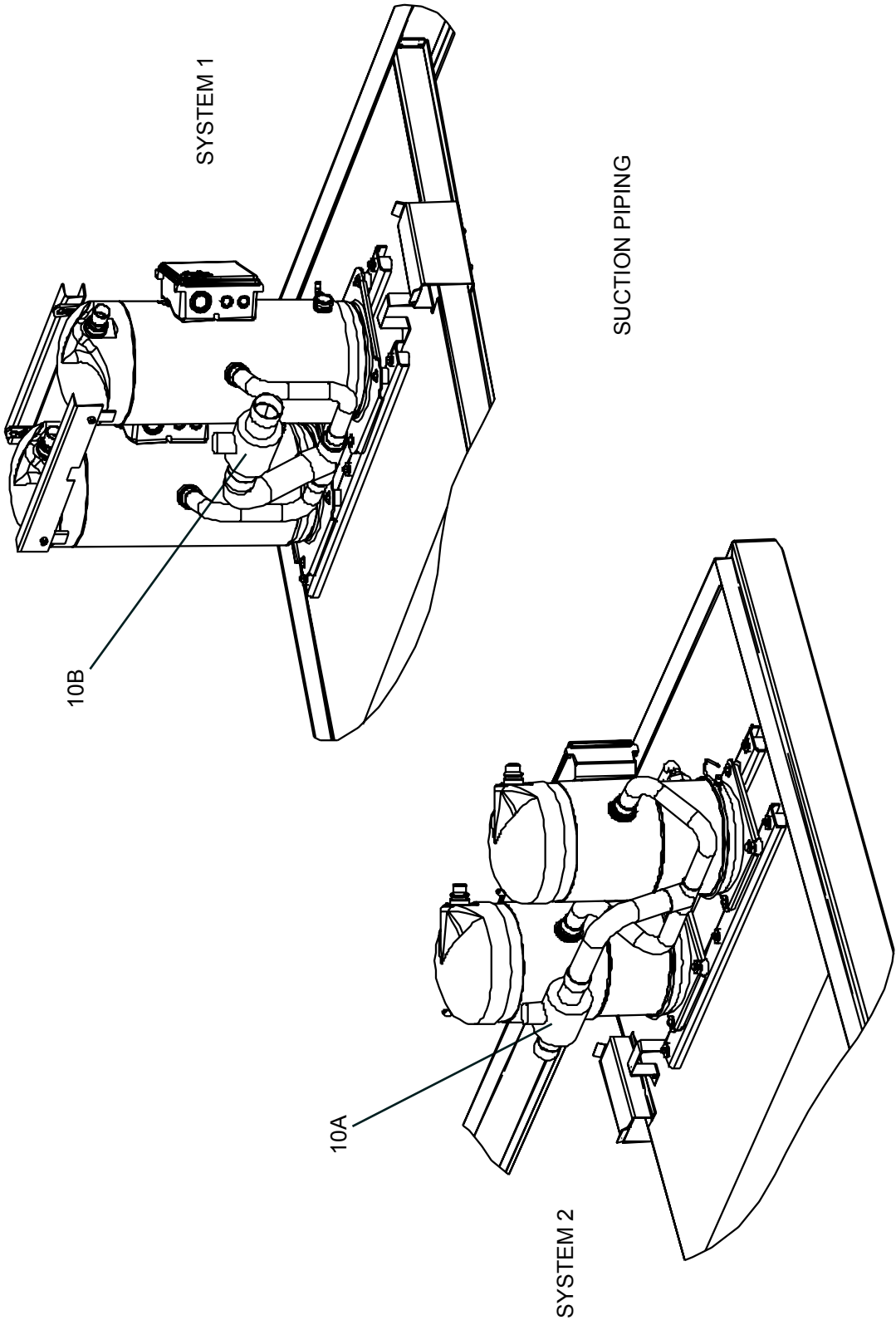


FIGURE 10 - REFRIGERANT PIPING COMPONENTS (SUCTION)

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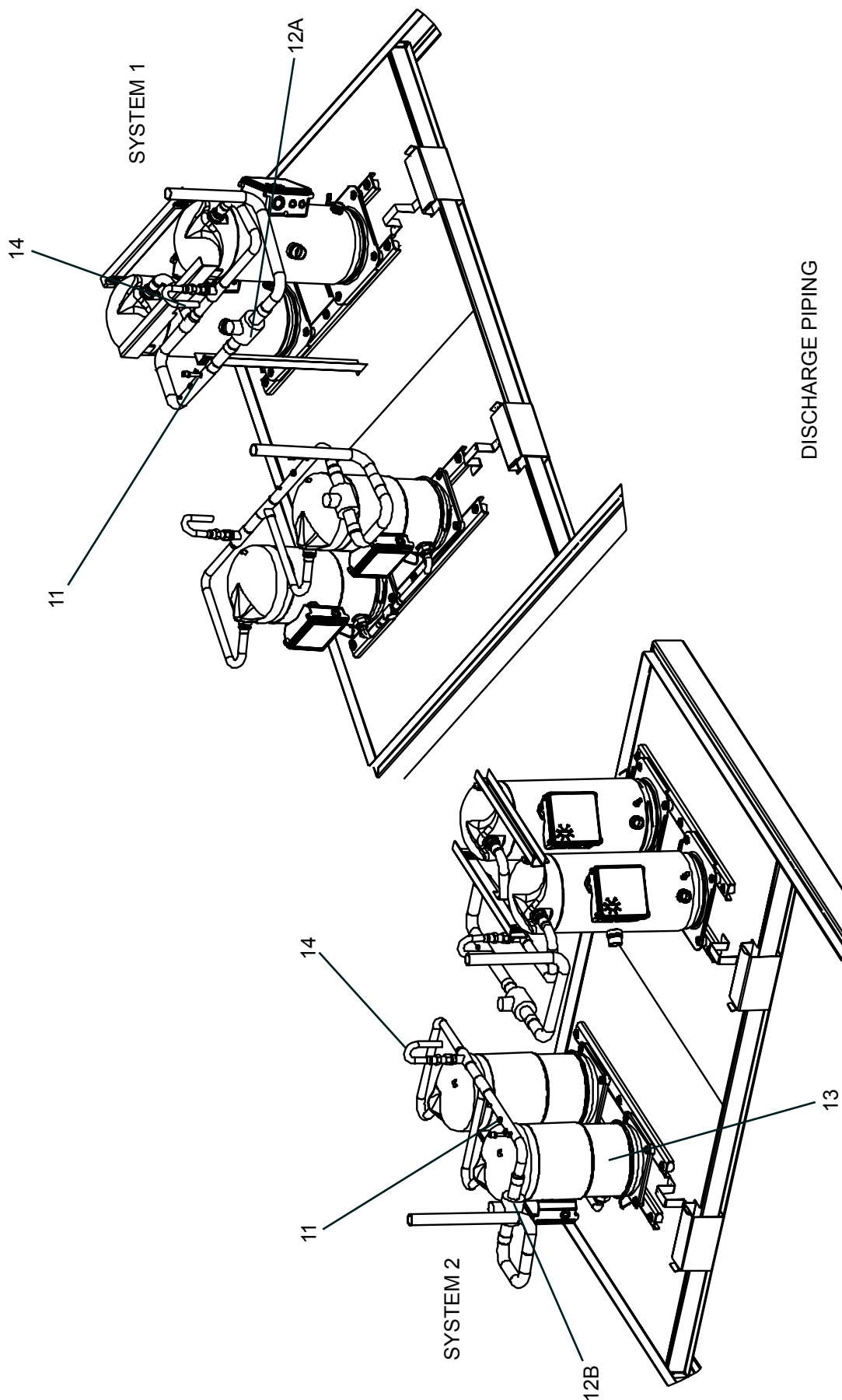


FIGURE 11 - REFRIGERANT PIPING COMPONENTS (DISCHARGE)

TABLE 11 - RECOMMENDED OIL TYPE

ITEM	COOLANT	DESCRIPTION	(6) 1 GALLON	5 GALLON
OIL ^S	R-410A	OIL, COMPRESSOR (TYPE 'V')	011-00948-000	011-00949-000

^S = Recommended Spare Part

TABLE 12 - R-410A COMPRESSOR PART NUMBERS

MODEL	VOLTAGE CODE	SYSTEM 1 #1 COMPRESSOR		SYSTEM 1 #2 COMPRESSOR		FIGURE
		PART #	MODEL #	PART #	MODEL #	
QTC2015T	17 & 28	015-04041-101	ZP103KCE	015-04041-101	ZP103KCE	12
	40	015-04041-102		015-04041-102		
	46	015-04041-104		015-04041-104		
	58	015-04041-105		015-04041-105		
QTC2020T	17 & 28	015-04060-101	ZP120KCE	015-04060-101	ZP120KCE	
	40	015-04060-102		015-04060-102		
	46	015-04060-104		015-04060-104		
	58	015-04060-105		015-04060-105		
QTC2025T	17 & 28	015-04166-111	ZP182KCE	015-04055-111	ZP154KCE	
	40	015-04166-112		015-04055-112		
	46	015-04166-114		015-04055-114		
	58	015-04166-115		015-04055-115		
QTC2030T	17 & 28	015-04166-111	ZP182KCE	015-04166-111	ZP182KCE	
	40	015-04166-112		015-04166-112		
	46	015-04166-114		015-04166-114		
	58	015-04166-115		015-04166-115		
QTC2035T	17 & 28	015-04060-101	ZP120KCE	015-04060-101	ZP120KCE	
	40	015-04060-102		015-04060-102		
	46	015-04060-104		015-04060-104		
	58	015-04060-105		015-04060-105		
QTC2040T	17 & 28	015-04061-101	ZP120KCE	015-04060-101	ZP120KCE	
	40	015-04061-102		015-04060-102		
	46	015-04061-104		015-04060-104		
	58	015-04061-105		015-04060-105		
QTC2045T	17 & 28	015-04055-111	ZP154KCE	015-04055-111	ZP154KCE	
	40	015-04055-112		015-04055-112		
	46	015-04055-114		015-04055-114		
	58	015-04055-115		015-04055-115		

* Compressors are not interchangeable. The correct compressor must be used; substitutions are not possible. Select the proper compressor Part Number based on the compressor model on the unit.

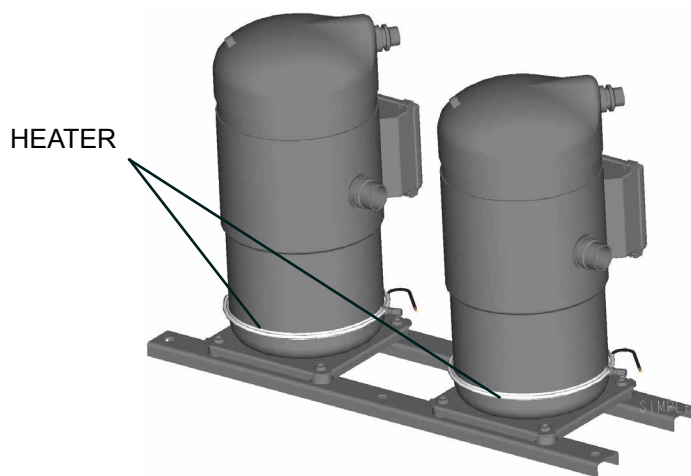
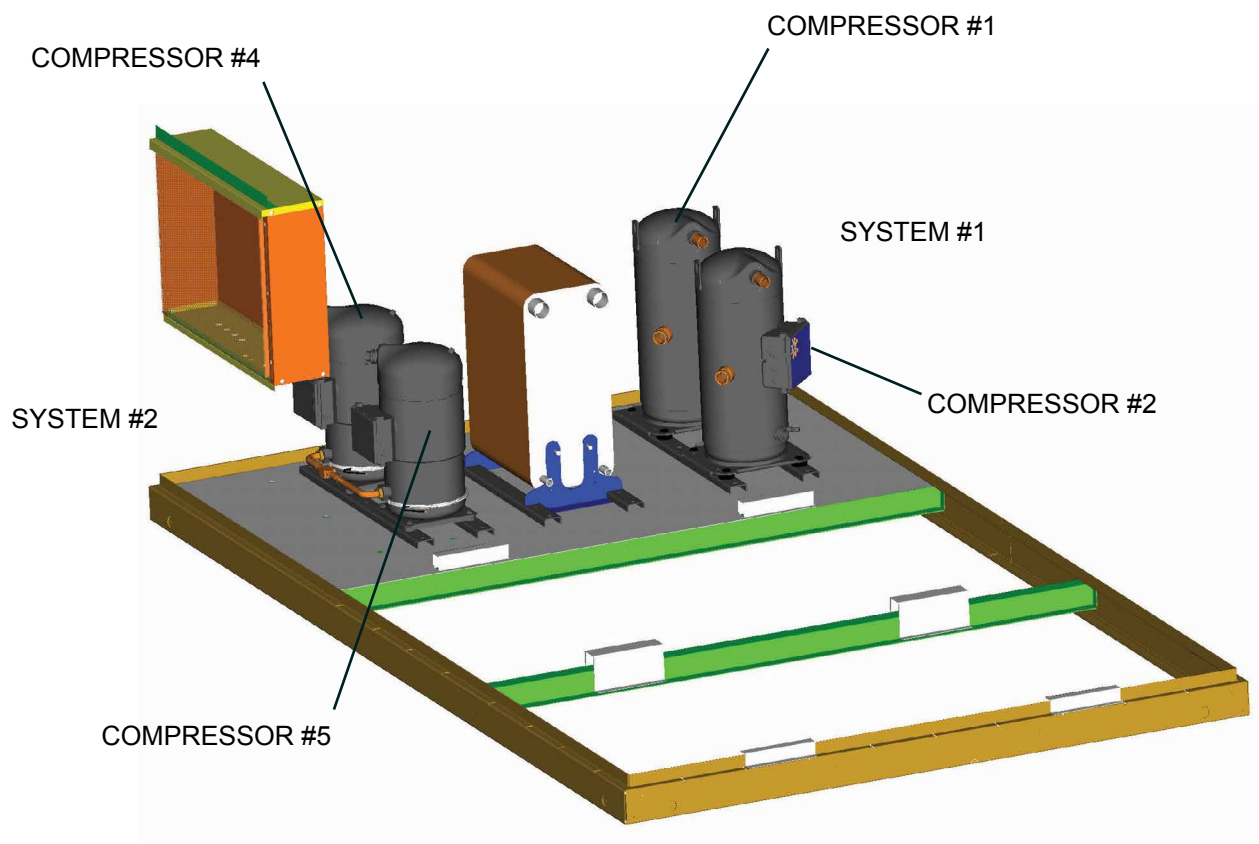
TABLE 12 - R-410A COMPRESSOR PART NUMBERS (CONT'D)

MODEL	VOLTAGE CODE	SYSTEM 2 #4 COMPRESSOR		SYSTEM 2 #5 COMPRESSOR		FIGURE
		PART #	MODEL #	PART #	MODEL #	
QTC2015T	17 & 28	N/A	N/A	N/A	N/A	12
	40					
	46					
	58					
QTC2020T	17 & 28	N/A	N/A	N/A	N/A	
	40					
	46					
	58					
QTC2025T	17 & 28	N/A	N/A	N/A	N/A	
	40					
	46					
	58					
QTC2030T	17 & 28	N/A	N/A	N/A	N/A	
	40					
	46					
	58					
QTC2035T	17 & 28	015-04060-101	ZP120KCE	015-04060-101	ZP120KCE	
	40	015-04060-102		015-04060-102		
	46	015-04060-104		015-04060-104		
	58	015-04060-105		015-04060-105		
QTC2040T	17 & 28	015-04060-101	ZP120KCE	015-04060-101	ZP120KCE	
	40	015-04060-102		015-04060-102		
	46	015-04060-104		015-04060-104		
	58	015-04060-105		015-04060-105		
QTC2045T	17 & 28	015-04055-111	ZP154KCE	015-04055-111	ZP154KCE	
	40	015-04055-112		015-04055-112		
	46	015-04055-114		015-04055-114		
	58	015-04055-115		015-04055-115		

* Compressors are not interchangeable. The correct compressor must be used; substitutions are not possible. Select the proper compressor Part Number based on the compressor model on the unit.

TABLE 13 - COMPRESSOR HEATER AND COMPRESSOR SOUND BLANKET PART NUMBERS

COMPRESSOR PART NUMBER	HEATER PART NUMBER	QUANTITY PER COMPRESSOR	SOUND BLANKET PART NUMBER	QUANTITY PER COMPRESSOR	FIGURE
015-04041-xxx	025-40351-000	1	010-06507-005	1	12
015-04055-xxx	025-40351-000	1	010-06507-007	1	
015-04060-xxx	025-40351-000	1	010-06507-005	1	
015-04061-xxx	025-40351-000	1	010-06507-005	1	
015-04166-xxx	025-37888-000	1	010-06507-007	1	



55692-000-A

FIGURE 12 - COMPRESSOR - TYPICAL LAYOUT

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. The model pin number locations 16 and 17 would be as shown in the table below to reflect this basic combination. Identify model pin number locations 16 and 17 to identify the chiller power wiring connections and hardware listed below. See *UNIT NOMENCLATURE NAMEPLATE ENGINEERING DATA* on Page 4.

TABLE 14 - OPTIONAL PANEL AND POWER PANEL CONFIGURATIONS

PIN 16 & 17 LETTER CODE IDENTIFIERS		CONFIGURATIONS
S	X	Single Point Supply Terminal Block
S	D	Single Point Supply Non-Fused Disconnect Switch
B	X	Single Point Supply Circuit Breaker

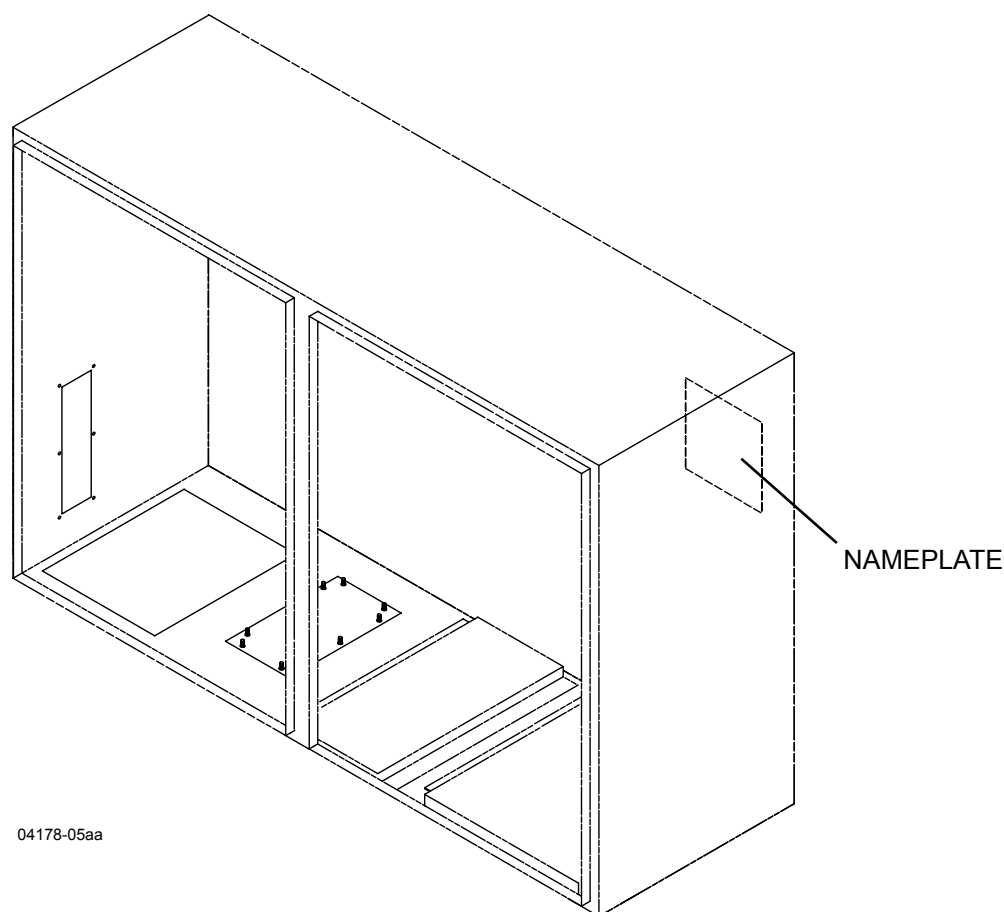


FIGURE 13 - CONTROL AND POWER PANEL IDENTIFIER LOCATION

To identify replacement part numbers, select “Panel Identifier Number” from the table below or from the panel nameplate shown on *Figure 15 on page 25*,

then refer to the “Control and Power Panel Components” information (*Table 16 on page 27*; see also *Figure 14 on page 39* and *Figure 15 on page 40*).

TABLE 15 - CONTROL PANEL AND POWER PANEL IDENTIFIERS

MODEL	VOLTAGE CODE	SINGLE POINT TERMINAL BLOCK (SX)	SINGLE POINT NON-FUSED DISCONNECT SWITCH (SD)	SINGLE POINT CIRCUIT BREAKER (BX)
QTC2015T & QTC2020T	17 & 28	371-05161-101	371-05161-201	371-05161-301
	40, 46 & 58	371-05161-102	371-05161-202	371-05161-302
QTC2025T	17 & 28	371-05162-101	371-05162-201	371-05162-301
	40	371-05162-102	371-05162-202	371-05162-301
	46 & 58	371-05162-102	371-05162-202	371-05162-302
QTC2030T	17 & 28	371-05162-101	371-05162-201	371-05162-301
	40, 46 & 58	371-05162-102	371-05162-202	371-05162-302
QTC2035T & QTC2040T	17 & 28	371-05163-101	371-05163-201	371-05163-301
	40, 46 & 58	371-05163-102	371-05163-202	371-05163-302
QTC2045T	17, 28 & 40	371-05163-103	371-05163-203	371-05163-303
	46, & 58	371-05163-102	371-05163-202	371-05163-302

TABLE 16 - CONTROL AND POWER PANEL COMPONENTS

ITEM	QUANTITY	DESCRIPTION	QTC2015T-17 & QTC2015T-28 QTC2020T-17 & QTC2020T-28			FIGURE
			371-05161-101SX**	371-05161-201SD**	371-05161-301BX**	
2	1	Control Transformer	025-27911-000	025-27911-000	025-27911-000	14
2A	1	Single Point Terminal Block	025-39423-000	N/A	N/A	
	1	Single Point Circuit Breaker	N/A	N/A	025-34419-000	
	1	Single Point NF Disconnect Switch	N/A	024-31871-000	N/A	
2B	1	Lugs	N/A	025-34480-000	025-34418-000	
2C	1	Ground Lug	025-34455-000	025-34089-000	025-34089-000	
3A	1	Control Board, IPU 2	031-02550-101*	031-02550-101*	031-02550-101*	
3B	1	Flash Card	031-02755-001	031-02755-001	031-02755-001	
4A	4	Compressor Contactor	024-35467-000	024-35467-000	024-35467-000	
4B	4	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	
4D	4	Auxiliary Contact	024-35493-000	N/A	N/A	
5	2	Control Relay	024-35526-000	024-35526-000	024-35526-000	15
5A	2	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	
6B	1	Display	031-02749-000	031-02749-000	031-02749-000	
6D	1	Switch	024-25517-000	024-25517-000	024-25517-000	16
6F	1	Ribbon Cable	031-02108-000	031-02108-000	031-02108-000	
7C	4	Fan Contactor	024-35441-000	024-35441-000	024-35441-000	
7D	4	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	
7E	2	Fuse Block	025-37864-000	025-37864-000	025-37864-000	
7F	6	Fuse	025-34139-000	025-34139-000	025-34139-000	
10	1	Ground Bar	025-35685-000	025-35685-000	025-35685-000	
11	1	Fuse Block	025-37862-000	025-37862-000	025-37862-000	16
11A	1	Fuse	025-34435-000	025-34435-000	025-34435-000	

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

Service Note: Locate the PANEL NUMBER sticker on the upper right hand corner of the power panel, then refer to the appropriate parts list for that number. Or, identify PIN number positions 16 and 17 on unit identification plate (see example on page 4) then compare to table directly above for power configuration options.

***Note:** Replacement Control Board (Item 3A) should be ordered as kit #331-02550-101. (Kit contains assembled 031-02630-001 I/O Board and 031-02550-000 Control Board, as well as a Flash Card. The dual system 031-02550-000 Control Board can be used in both single and dual system QTC2 units.)

TABLE 16 - CONTROL AND POWER PANEL COMPONENTS (CONT'D)

ITEM	QUANTITY	DESCRIPTION	QTC2015T-40 & QTC2015T-46 QTC2020T-40 & QTC2020T-46			FIGURE
			371-05161-102SX**	371-05161-202SD**	371-05161-302BX**	
2	1	Control Transformer	025-27911-000	025-27911-000	025-27911-000	14
2A	1	Single Point Terminal Block	025-39423-000	N/A	N/A	
	1	Single Point Circuit Breaker	N/A	N/A	024-35973-000	
	1	Single Point NF Disconnect Switch	N/A	024-31888-000	N/A	
2B	1	Lugs	N/A	025-34478-000	025-40823-000	
2C	1	Ground Lug	025-34455-000	025-34089-000	025-34455-000	
3A	1	Control Board, IPU 2	031-02550-101*	031-02550-101*	031-02550-101*	
3B	1	Flash Card	031-02755-001	031-02755-001	031-02755-001	
4A	4	Compressor Contactor	024-35459-000	024-35459-000	024-35459-000	
4B	4	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	
4D	4	Auxiliary Contact	024-35493-000	N/A	N/A	
5	2	Control Relay	024-35526-000	024-35526-000	024-35526-000	15
5A	2	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	
6B	1	Display	031-02749-000	031-02749-000	031-02749-000	
6D	1	Switch	024-25517-000	024-25517-000	024-25517-000	16
6F	1	Ribbon Cable	031-02108-000	031-02108-000	031-02108-000	
7C	4	Fan Contactor	024-35441-000	024-35441-000	024-35441-000	
7D	4	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	
7E	2	Fuse Block	025-37864-000	025-37864-000	025-37864-000	
7F	6	Fuse	025-34139-000	025-34139-000	025-34139-000	
10	1	Ground Bar	025-35685-000	025-35685-000	025-35685-000	
11	1	Fuse Block	025-37862-000	025-37862-000	025-37862-000	
11A	1	Fuse	025-34435-000	025-34435-000	025-34435-000	

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

Service Note: Locate the PANEL NUMBER sticker on the upper right hand corner of the power panel, then refer to the appropriate parts list for that number. Or, identify PIN number positions 16 and 17 on unit identification plate (see example on page 4) then compare to table directly above for power configuration options.

***Note:** Replacement Control Board (Item 3A) should be ordered as kit #331-02550-101. (Kit contains assembled 031-02630-001 I/O Board and 031-02550-000 Control Board, as well as a Flash Card. The dual system 031-02550-000 Control Board can be used in both single and dual system QTC2 units.)

TABLE 16 - CONTROL AND POWER PANEL COMPONENTS (CONT'D)

ITEM	QUANTITY	DESCRIPTION	QTC2015T-58 QTC2020T-58			FIGURE
			371-05161-102SX**	371-05161-202SD**	371-05161-302BX**	
2	1	Control Transformer	025-27911-000	025-27911-000	025-27911-000	14
2A	1	Single Point Terminal Block	025-39423-000	N/A	N/A	
	1	Single Point Circuit Breaker	N/A	N/A	024-35973-000	
	1	Single Point NF Disconnect Switch	N/A	024-31888-000	N/A	
2B	1	Lugs	N/A	025-34478-000	025-40823-000	
2C	1	Ground Lug	025-34455-000	025-34089-000	025-34455-000	
3A	1	Control Board, IPU 2	031-02550-101*	031-02550-101*	031-02550-101*	
3B	1	Flash Card	031-02755-001	031-02755-001	031-02755-001	
4A	4	Compressor Contactor	024-35459-000	024-35459-000	024-35459-000	
4B	4	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	
4D	4	Auxiliary Contact	024-35493-000	N/A	N/A	
5	2	Control Relay	024-35526-000	024-35526-000	024-35526-000	15
5A	2	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	
6B	1	Display	031-02749-000	031-02749-000	031-02749-000	
6D	1	Switch	024-25517-000	024-25517-000	024-25517-000	16
6F	1	Ribbon Cable	031-02108-000	031-02108-000	031-02108-000	
7C	4	Fan Contactor	024-35441-000	024-35441-000	024-35441-000	
7D	4	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	
7E	2	Fuse Block	025-37864-000	025-37864-000	025-37864-000	
7F	6	Fuse	025-34139-000	025-34139-000	025-34139-000	
10	1	Ground Bar	025-35685-000	025-35685-000	025-35685-000	
11	1	Fuse Block	025-37862-000	025-37862-000	025-37862-000	16
11A	1	Fuse	025-34435-000	025-34435-000	025-34435-000	

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

Service Note: Locate the PANEL NUMBER sticker on the upper right hand corner of the power panel, then refer to the appropriate parts list for that number. Or, identify PIN number positions 16 and 17 on unit identification plate (see example on page 4) then compare to table directly above for power configuration options.

***Note:** Replacement Control Board (Item 3A) should be ordered as kit #331-02550-101. (Kit contains assembled 031-02630-001 I/O Board and 031-02550-000 Control Board, as well as a Flash Card. The dual system 031-02550-000 Control Board can be used in both single and dual system QTC2 units.)

TABLE 16 - CONTROL AND POWER PANEL COMPONENTS (CONT'D)

ITEM	QUANTITY	DESCRIPTION	QTC2025T-17 & QTC2025T-28 QTC2030T-17 & QTC2030T-28			FIGURE
			371-05162-101SX**	371-05162-201SD**	371-05162-301BX**	
2	1	Control Transformer	025-27911-000	025-27911-000	025-27911-000	14
2A	1	Single Point Terminal Block	025-39386-000	N/A	N/A	
	1	Single Point Circuit Breaker	N/A	N/A	025-34419-000	
	1	Single Point NF Disconnect Switch	N/A	024-31871-000	N/A	
2B	1	Lugs	N/A	025-34480-000	025-34480-000	
2C	1	Ground Lug	025-34089-000	025-34089-000	025-34089-000	
3A	1	Control Board, IPU 2	031-02550-101*	031-02550-101*	031-02550-101*	
3B	1	Flash Card	031-02755-001	031-02755-001	031-02755-001	
4A	4	Compressor Contactor	024-35470-000	024-35470-000	024-35470-000	
4B	4	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	
4D	4	Auxiliary Contact	024-35493-000	N/A	N/A	
5	2	Control Relay	024-35526-000	024-35526-000	024-35526-000	
5A	2	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	15
6B	1	Display	031-02749-000	031-02749-000	031-02749-000	
6D	1	Switch	024-25517-000	024-25517-000	024-25517-000	
6F	1	Ribbon Cable	031-02108-000	031-02108-000	031-02108-000	16
7C	4	Fan Contactor	024-35444-000	024-35444-000	024-35444-000	
7D	4	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	
7E	2	Fuse Block	025-37863-000	025-37863-000	025-37863-000	
7F	6	Fuse	025-34142-000	025-34142-000	025-34142-000	
10	1	Ground Bar	025-35685-000	025-35685-000	025-35685-000	
11	1	Fuse Block	025-37862-000	025-37862-000	025-37862-000	
11A	1	Fuse	025-34435-000	025-34435-000	025-34435-000	

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

Service Note: Locate the PANEL NUMBER sticker on the upper right hand corner of the power panel, then refer to the appropriate parts list for that number. Or, identify PIN number positions 16 and 17 on unit identification plate (see example on page 4) then compare to table directly above for power configuration options.

***Note:** Replacement Control Board (Item 3A) should be ordered as kit #331-02550-101. (Kit contains assembled 031-02630-001 I/O Board and 031-02550-000 Control Board, as well as a Flash Card. The dual system 031-02550-000 Control Board can be used in both single and dual system QTC2 units.)

TABLE 16 - CONTROL AND POWER PANEL COMPONENTS (CONT'D)

ITEM	QUANTITY	DESCRIPTION	QTC2025T-40 & QTC2025T-46 QTC2030T-40 & QTC2030T-46			FIGURE
			371-05162-102SX**	371-05162-202SD**	371-05162-302BX**	
2	1	Control Transformer	025-27911-000	025-27911-000	025-27911-000	14
2A	1	Single Point Terminal Block	025-39423-000	N/A	N/A	
	1	Single Point Circuit Breaker	N/A	N/A	025-34419-000	
	1	Single Point NF Disconnect Switch	N/A	024-31888-000	N/A	
2B	1	Lugs	N/A	025-34478-000	025-34418-000	
2C	1	Ground Lug	025-34089-000	025-34089-000	025-34089-000	
3A	1	Control Board, IPU 2	031-02550-101*	031-02550-101*	031-02550-101*	
3B	1	Flash Card	031-02755-001	031-02755-001	031-02755-001	
4A	4	Compressor Contactor	024-35462-000	024-35462-000	024-35462-000	
4B	4	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	
4D	4	Auxiliary Contact	N/A	N/A	N/A	
5	2	Control Relay	024-35526-000	024-35526-000	024-35526-000	15
5A	2	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	
6B	1	Display	031-02749-000	031-02749-000	031-02749-000	
6D	1	Switch	024-25517-000	024-25517-000	024-25517-000	16
6F	1	Ribbon Cable	031-02108-000	031-02108-000	031-02108-000	
7C	4	Fan Contactor	024-35444-000	024-35441-000	024-35441-000	
7D	4	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	
7E	2	Fuse Block	025-37863-000	025-37863-000	025-37863-000	
7F	6	Fuse	025-34142-000	025-34142-000	025-34142-000	
10	1	Ground Bar	025-35685-000	025-35685-000	025-35685-000	
11	1	Fuse Block	025-37862-000	025-37862-000	025-37862-000	16
11A	1	Fuse	025-34435-000	025-34435-000	025-34435-000	

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

Service Note: Locate the PANEL NUMBER sticker on the upper right hand corner of the power panel, then refer to the appropriate parts list for that number. Or, identify PIN number positions 16 and 17 on unit identification plate (see example on page 4) then compare to table directly above for power configuration options.

***Note:** Replacement Control Board (Item 3A) should be ordered as kit #331-02550-101. (Kit contains assembled 031-02630-001 I/O Board and 031-02550-000 Control Board, as well as a Flash Card. The dual system 031-02550-000 Control Board can be used in both single and dual system QTC2 units.)

TABLE 16 - CONTROL AND POWER PANEL COMPONENTS (CONT'D)

ITEM	QUANTITY	DESCRIPTION	QTC2025T-58 QTC2030T-58			FIGURE
			371-05162-102SX**	371-05162-202SD**	371-05162-302BX**	
2	1	Control Transformer	025-27911-000	025-27911-000	025-27911-000	14
2A	1	Single Point Terminal Block	025-39423-000	N/A	N/A	
	1	Single Point Circuit Breaker	N/A	N/A	025-34419-000	
	1	Single Point NF Disconnect Switch	N/A	024-31888-000	N/A	
2B	1	Lugs	N/A	025-34478-000	025-34418-000	
2C	1	Ground Lug	025-34089-000	025-34089-000	025-34089-000	
3A	1	Control Board, IPU 2	031-02550-101*	031-02550-101*	031-02550-101*	
3B	1	Flash Card	031-02755-001	031-02755-001	031-02755-001	
4A	4	Compressor Contactor	024-35462-000	024-35462-000	024-35462-000	
4B	4	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	
4D	4	Auxiliary Contact	N/A	N/A	N/A	
5	2	Control Relay	024-35526-000	024-35526-000	024-35526-000	15
5A	2	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	
6B	1	Display	031-02749-000	031-02749-000	031-02749-000	
6D	1	Switch	024-25517-000	024-25517-000	024-25517-000	
6F	1	Ribbon Cable	031-02108-000	031-02108-000	031-02108-000	16
7C	4	Fan Contactor	024-35444-000	024-35441-000	024-35441-000	
7D	4	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	
7E	2	Fuse Block	025-37863-000	025-37863-000	025-37863-000	
7F	6	Fuse	025-34142-000	025-34142-000	025-34142-000	
10	1	Ground Bar	025-35685-000	025-35685-000	025-35685-000	
11	1	Fuse Block	025-37862-000	025-37862-000	025-37862-000	
11A	1	Fuse	025-34435-000	025-34435-000	025-34435-000	

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

Service Note: Locate the PANEL NUMBER sticker on the upper right hand corner of the power panel, then refer to the appropriate parts list for that number. Or, identify PIN number positions 16 and 17 on unit identification plate (see example on page 4) then compare to table directly above for power configuration options.

***Note:** Replacement Control Board (Item 3A) should be ordered as kit #331-02550-101. (Kit contains assembled 031-02630-001 I/O Board and 031-02550-000 Control Board, as well as a Flash Card. The dual system 031-02550-000 Control Board can be used in both single and dual system QTC2 units.)

TABLE 16 - CONTROL AND POWER PANEL COMPONENTS (CONT'D)

ITEM	QUANTITY	DESCRIPTION	QTC2035T-17 & QTC2035T-28 QTC2040T-17 & QTC2040T-28			FIGURE
			371-05163-101SX**	371-05163-201SD**	371-05163-301BX**	
2	1	Control Transformer	025-27911-000	025-27911-000	025-27911-000	14
2A	1	Single Point Terminal Block	025-39410-000	N/A	N/A	
	1	Single Point Circuit Breaker	N/A	N/A	025-34424-000	
	1	Single Point NF Disconnect Switch	N/A	024-30964-000	N/A	
2B	1	Lugs	N/A	025-34420-000	025-34420-000	
2C	1	Ground Lug	025-34089-000	025-34089-000	025-34089-000	
3A	1	Control Board, IPU 2	031-02550-101*	031-02550-101*	031-02550-101*	
3B	1	Flash Card	031-02755-001	031-02755-001	031-02755-001	
4A	4	Compressor Contactor	024-35467-000	024-35467-000	024-35467-000	
4B	4	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	
4D	4	Auxiliary Contact	024-35493-000	N/A	N/A	
5	2	Control Relay	024-35526-000	024-35526-000	024-35526-000	15
5A	2	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	
6B	1	Display	031-02749-000	031-02749-000	031-02749-000	
6D	1	Switch	024-25517-000	024-25517-000	024-25517-000	16
6F	1	Ribbon Cable	031-02108-000	031-02108-000	031-02108-000	
7C	4	Fan Contactor	024-35444-000	024-35444-000	024-35444-000	
7D	4	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	
7E	2	Fuse Block	025-37863-000	025-37863-000	025-37863-000	
7F	6	Fuse	025-34142-000	025-34142-000	025-34142-000	
10	1	Ground Bar	025-35685-000	025-35685-000	025-35685-000	
11	1	Fuse Block	025-37862-000	025-37862-000	025-37862-000	16
11A	1	Fuse	025-34435-000	025-34435-000	025-34435-000	

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

Service Note: Locate the PANEL NUMBER sticker on the upper right hand corner of the power panel, then refer to the appropriate parts list for that number. Or, identify PIN number positions 16 and 17 on unit identification plate (see example on page 4) then compare to table directly above for power configuration options.

***Note:** Replacement Control Board (Item 3A) should be ordered as kit #331-02550-101. (Kit contains assembled 031-02630-001 I/O Board and 031-02550-000 Control Board, as well as a Flash Card. The dual system 031-02550-000 Control Board can be used in both single and dual system QTC2 units.)

TABLE 16 - CONTROL AND POWER PANEL COMPONENTS (CONT'D)

ITEM	QUANTITY	DESCRIPTION	QTC2035T-40 & QTC2035T-46 QTC2040T-40 & QTC2040T-46			FIGURE
			371-05163-102SX**	371-05163-202SD**	371-05163-302BX**	
2	1	Control Transformer	025-27911-000	025-27911-000	025-27911-000	14
2A	1	Single Point Terminal Block	025-39423-000	N/A	N/A	
	1	Single Point Circuit Breaker	N/A	N/A	025-34419-000	
	1	Single Point NF Disconnect Switch	N/A	024-31888-000	N/A	
2B	1	Lugs	N/A	025-34480-000	025-34418-000	
2C	1	Ground Lug	025-34089-000	025-34089-000	025-34089-000	
3A	1	Control Board, IPU 2	031-02550-101*	031-02550-101*	031-02550-101*	
3B	1	Flash Card	031-02755-001	031-02755-001	031-02755-001	
4A	4	Compressor Contactor	024-35459-000	024-35459-000	024-35459-000	
4B	4	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	
4D	4	Auxiliary Contact	024-35493-000	N/A	N/A	
5	2	Control Relay	024-35526-000	024-35526-000	024-35526-000	15
5A	2	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	
6B	1	Display	031-02749-000	031-02749-000	031-02749-000	
6D	1	Switch	024-25517-000	024-25517-000	024-25517-000	16
6F	1	Ribbon Cable	031-02108-000	031-02108-000	031-02108-000	
7C	4	Fan Contactor	024-35441-000	024-35441-000	024-35441-000	
7D	4	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	
7E	2	Fuse Block	025-37863-000	025-37863-000	025-37863-000	
7F	6	Fuse	025-34142-000	025-34142-000	025-34142-000	
10	1	Ground Bar	025-35685-000	025-35685-000	025-35685-000	
11	1	Fuse Block	025-37862-000	025-37862-000	025-37862-000	16
11A	1	Fuse	025-34435-000	025-34435-000	025-34435-000	

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

Service Note: Locate the PANEL NUMBER sticker on the upper right hand corner of the power panel, then refer to the appropriate parts list for that number. Or, identify PIN number positions 16 and 17 on unit identification plate (see example on page 4) then compare to table directly above for power configuration options.

***Note:** Replacement Control Board (Item 3A) should be ordered as kit #331-02550-101. (Kit contains assembled 031-02630-001 I/O Board and 031-02550-000 Control Board, as well as a Flash Card. The dual system 031-02550-000 Control Board can be used in both single and dual system QTC2 units.)

TABLE 16 - CONTROL AND POWER PANEL COMPONENTS (CONT'D)

ITEM	QUANTITY	DESCRIPTION	QTC2035T-58 QTC2040T-58			FIGURE
			371-05163-102SX**	371-05163-202SD**	371-05163-302BX**	
2	1	Control Transformer	025-27911-000	025-27911-000	025-27911-000	14
2A	1	Single Point Terminal Block	025-39423-000	N/A	N/A	
	1	Single Point Circuit Breaker	N/A	N/A	025-34419-000	
	1	Single Point NF Disconnect Switch	N/A	024-31888-000	N/A	
2B	1	Lugs	N/A	025-34480-000	025-34418-000	
2C	1	Ground Lug	025-34089-000	025-34089-000	025-34089-000	
3A	1	Control Board, IPU 2	031-02550-101*	031-02550-101*	031-02550-101*	
3B	1	Flash Card	031-02755-001	031-02755-001	031-02755-001	
4A	4	Compressor Contactor	024-35459-000	024-35459-000	024-35459-000	
4B	4	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	
4D	4	Auxiliary Contact	024-35493-000	N/A	N/A	
5	2	Control Relay	024-35526-000	024-35526-000	024-35526-000	15
5A	2	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	
6B	1	Display	031-02749-000	031-02749-000	031-02749-000	
6D	1	Switch	024-25517-000	024-25517-000	024-25517-000	16
6F	1	Ribbon Cable	031-02108-000	031-02108-000	031-02108-000	
7C	4	Fan Contactor	024-35441-000	024-35441-000	024-35441-000	
7D	4	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	
7E	2	Fuse Block	025-37863-000	025-37863-000	025-37863-000	
7F	6	Fuse	025-34142-000	025-34142-000	025-34142-000	
10	1	Ground Bar	025-35685-000	025-35685-000	025-35685-000	
11	1	Fuse Block	025-37862-000	025-37862-000	025-37862-000	16
11A	1	Fuse	025-34435-000	025-34435-000	025-34435-000	

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

Service Note: Locate the PANEL NUMBER sticker on the upper right hand corner of the power panel, then refer to the appropriate parts list for that number. Or, identify PIN number positions 16 and 17 on unit identification plate (see example on page 4) then compare to table directly above for power configuration options.

***Note:** Replacement Control Board (Item 3A) should be ordered as kit #331-02550-101. (Kit contains assembled 031-02630-001 I/O Board and 031-02550-000 Control Board, as well as a Flash Card. The dual system 031-02550-000 Control Board can be used in both single and dual system QTC2 units.)

TABLE 16 - CONTROL AND POWER PANEL COMPONENTS (CONT'D)

ITEM	QUANTITY	DESCRIPTION	QTC2045T-17 QTC2045T-28			FIGURE
			371-05163-103SX**	371-05163-203SD**	371-05163-303BX**	
2	1	Control Transformer	025-27911-000	025-27911-000	025-27911-000	14
2A	1	Single Point Terminal Block	025-39410-000	N/A	N/A	
	1	Single Point Circuit Breaker	N/A	N/A	025-34424-000	
	1	Single Point NF Disconnect Switch	N/A	024-30964-000	N/A	
2B	1	Lugs	N/A	025-34481-000	025-34481-000	
2C	1	Ground Lug	025-34089-000	025-34089-000	025-34089-000	
3A	1	Control Board, IPU 2	031-02550-101*	031-02550-101*	031-02550-101*	
3B	1	Flash Card	031-02755-001	031-02755-001	031-02755-001	
4A	4	Compressor Contactor	024-35473-000	024-35473-000	024-35473-000	
4B	4	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	
4D	4	Auxiliary Contact	024-35493-000	N/A	N/A	
5	2	Control Relay	024-35526-000	024-35526-000	024-35526-000	15
5A	2	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	
6B	1	Display	031-02749-000	031-02749-000	031-02749-000	
6D	1	Switch	024-25517-000	024-25517-000	024-25517-000	14
6F	1	Ribbon Cable	031-02108-000	031-02108-000	031-02108-000	
7C	4	Fan Contactor	024-35444-000	024-35444-000	024-35444-000	
7D	4	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	
7E	2	Fuse Block	025-37863-000	025-37863-000	025-37863-000	
7F	6	Fuse	025-34142-000	025-34142-000	025-34142-000	
10	1	Ground Bar	025-35685-000	025-35685-000	025-35685-000	
11	1	Fuse Block	025-37862-000	025-37862-000	025-37862-000	14
11A	1	Fuse	025-34435-000	025-34435-000	025-34435-000	

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

Service Note: Locate the PANEL NUMBER sticker on the upper right hand corner of the power panel, then refer to the appropriate parts list for that number. Or, identify PIN number positions 16 and 17 on unit identification plate (see example on page 4) then compare to table directly above for power configuration options.

***Note:** Replacement Control Board (Item 3A) should be ordered as kit #331-02550-101. (Kit contains assembled 031-02630-001 I/O Board and 031-02550-000 Control Board, as well as a Flash Card. The dual system 031-02550-000 Control Board can be used in both single and dual system QTC2 units.)

TABLE 16 - CONTROL AND POWER PANEL COMPONENTS (CONT'D)

ITEM	QUANTITY	DESCRIPTION	QTC2045T-40 QTC2045T-46			FIGURE
			371-05163-102SX**	371-05163-202SD**	371-05163-302BX**	
2	1	Control Transformer	025-27911-000	025-27911-000	025-27911-000	14
2A	1	Single Point Terminal Block	025-39423-000	N/A	N/A	
	1	Single Point Circuit Breaker	N/A	N/A	025-34419-000	
	1	Single Point NF Disconnect Switch	N/A	024-31888-000	N/A	
2B	1	Lugs	N/A	025-34480-000	025-34418-000	
2C	1	Ground Lug	025-34089-000	025-34089-000	025-34089-000	
3A	1	Control Board, IPU 2	031-02550-101*	031-02550-101*	031-02550-101*	
3B	1	Flash Card	031-02755-001	031-02755-001	031-02755-001	
4A	4	Compressor Contactor	024-35459-000	024-35459-000	024-35459-000	
4B	4	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	
4D	4	Auxiliary Contact	024-35493-000	N/A	N/A	15
5	2	Control Relay	024-35526-000	024-35526-000	024-35526-000	
5A	2	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	
6B	1	Display	031-02749-000	031-02749-000	031-02749-000	
6D	1	Switch	024-25517-000	024-25517-000	024-25517-000	14
6F	1	Ribbon Cable	031-02108-000	031-02108-000	031-02108-000	
7C	4	Fan Contactor	024-35441-000	024-35441-000	024-35441-000	
7D	4	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	
7E	2	Fuse Block	025-37863-000	025-37863-000	025-37863-000	
7F	6	Fuse	025-34142-000	025-34142-000	025-34142-000	
10	1	Ground Bar	025-35685-000	025-35685-000	025-35685-000	
11	1	Fuse Block	025-37862-000	025-37862-000	025-37862-000	14
11A	1	Fuse	025-34435-000	025-34435-000	025-34435-000	

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

Service Note: Locate the PANEL NUMBER sticker on the upper right hand corner of the power panel, then refer to the appropriate parts list for that number. Or, identify PIN number positions 16 and 17 on unit identification plate (see example on page 4) then compare to table directly above for power configuration options.

***Note:** Replacement Control Board (Item 3A) should be ordered as kit #331-02550-101. (Kit contains assembled 031-02630-001 I/O Board and 031-02550-000 Control Board, as well as a Flash Card. The dual system 031-02550-000 Control Board can be used in both single and dual system QTC2 units.)

TABLE 16 - CONTROL AND POWER PANEL COMPONENTS (CONT'D)

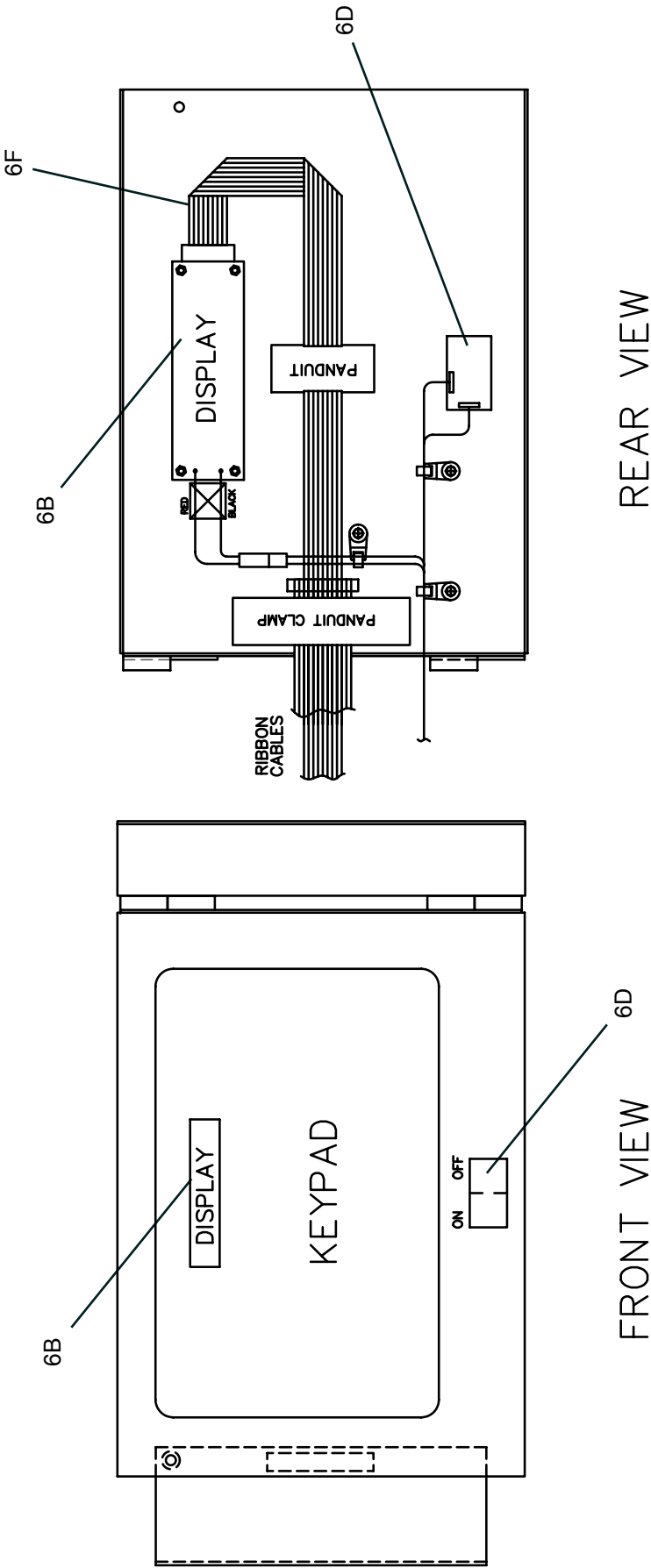
ITEM	QUANTITY	DESCRIPTION	QTC2045T-58			FIGURE
			371-05163-102SX**	371-05163-202SD**	371-05163-302BX**	
2	1	Control Transformer	025-27911-000	025-27911-000	025-27911-000	14
2A	1	Single Point Terminal Block	025-39423-000	N/A	N/A	
	1	Single Point Circuit Breaker	N/A	N/A	025-34419-000	
	1	Single Point NF Disconnect Switch	N/A	024-31888-000	N/A	
2B	1	Lugs	N/A	025-34480-000	025-34418-000	
2C	1	Ground Lug	025-34089-000	025-34089-000	025-34089-000	
3A	1	Control Board, IPU 2	031-02550-101*	031-02550-101*	031-02550-101*	
3B	1	Flash Card	031-02755-001	031-02755-001	031-02755-001	
4A	4	Compressor Contactor	024-35459-000	024-35459-000	024-35459-000	
4B	4	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	
4D	4	Auxiliary Contact	024-35493-000	N/A	N/A	
5	2	Control Relay	024-35526-000	024-35526-000	024-35526-000	15
5A	2	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	
6B	1	Display	031-02749-000	031-02749-000	031-02749-000	
6D	1	Switch	024-25517-000	024-25517-000	024-25517-000	14
6F	1	Ribbon Cable	031-02108-000	031-02108-000	031-02108-000	
7C	4	Fan Contactor	024-35441-000	024-35441-000	024-35441-000	
7D	4	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	
7E	2	Fuse Block	025-37863-000	025-37863-000	025-37863-000	
7F	6	Fuse	025-34142-000	025-34142-000	025-34142-000	
10	1	Ground Bar	025-35685-000	025-35685-000	025-35685-000	
11	1	Fuse Block	025-37862-000	025-37862-000	025-37862-000	14
11A	1	Fuse	025-34435-000	025-34435-000	025-34435-000	

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

Service Note: Locate the PANEL NUMBER sticker on the upper right hand corner of the power panel, then refer to the appropriate parts list for that number. Or, identify PIN number positions 16 and 17 on unit identification plate (see example on page 4) then compare to table directly above for power configuration options.

***Note:** Replacement Control Board (Item 3A) should be ordered as kit #331-02550-101. (Kit contains assembled 031-02630-001 I/O Board and 031-02550-000 Control Board, as well as a Flash Card. The dual system 031-02550-000 Control Board can be used in both single and dual system QTC2 units.)





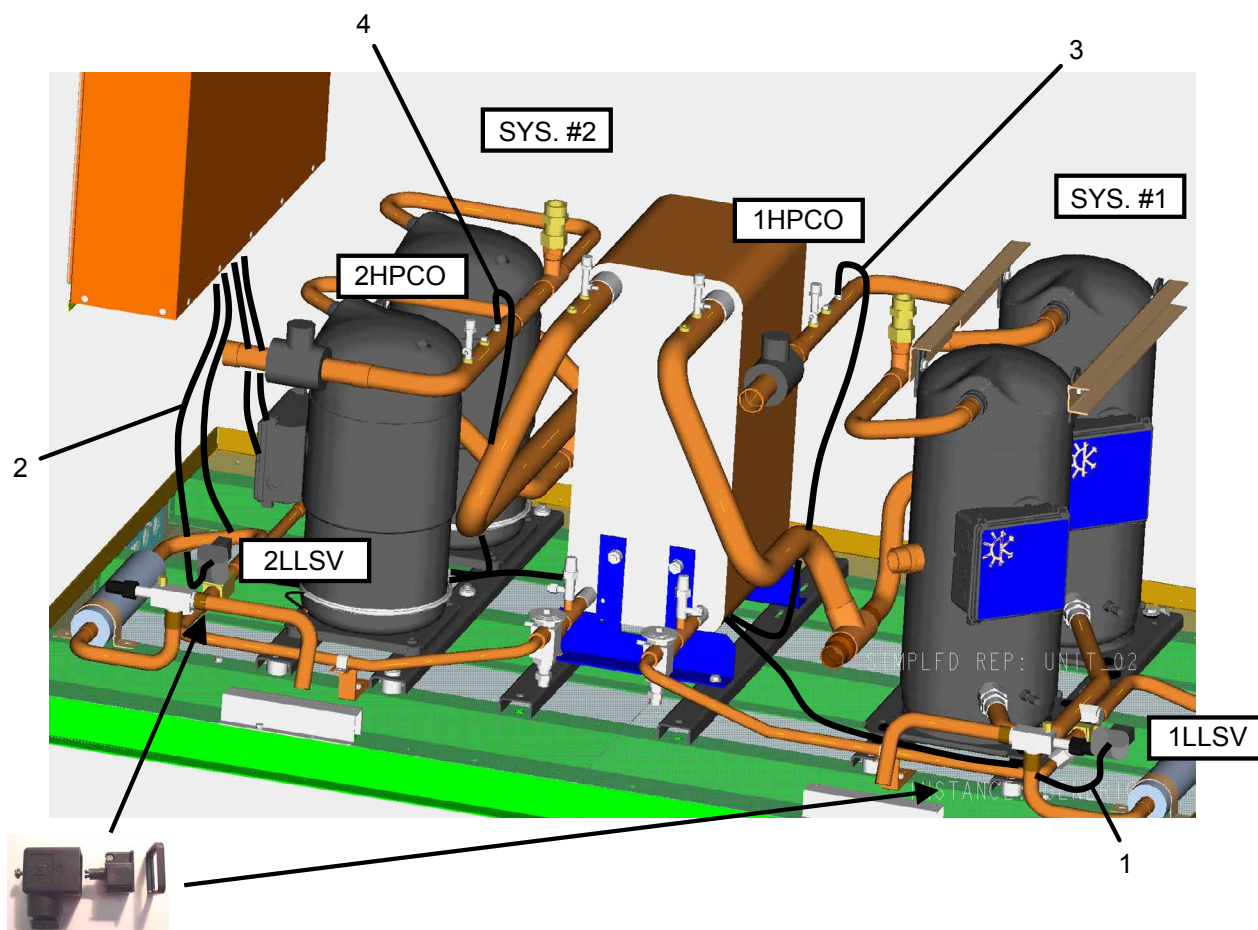
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FIGURE 15 - CONTROL AND POWER PANEL COMPONENTS (FRONT AND REAR VIEW)

TABLE 17 - CONTROL WIRING HARNESSSES

ITEM	DESCRIPTION	SYSTEM	MODEL	PART NUMBER	FIGURE
1	HARNESS, LIQUID LINE SOLENOID VALVE	#1	QTC2015T - QTC2030T	575-57126-231	16
			QTC2035T - QTC2045T	575-57126-215	
2	HARNESS, LIQUID LINE SOLENOID VALVE	#2	QTC2015T - QTC2030T	N/A	
			QTC2035T - QTC2045T	N/A	
3	HARNESS, HIGH PRESSURE CUT OUT*	#1	QTC2015T - QTC2030T	575-57126-244	
			QTC2035T - QTC2045T	575-57126-242	
4	HARNESS, HIGH PRESSURE CUT OUT*	#2	QTC2015T - QTC2030T	N/A	
			QTC2035T - QTC2045T	575-57126-243	

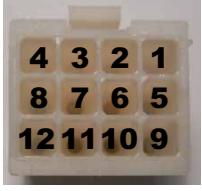
* **Service Note:** High Pressure Cut-Out Harness includes High Pressure Cut-Out Switch 025-41535-000

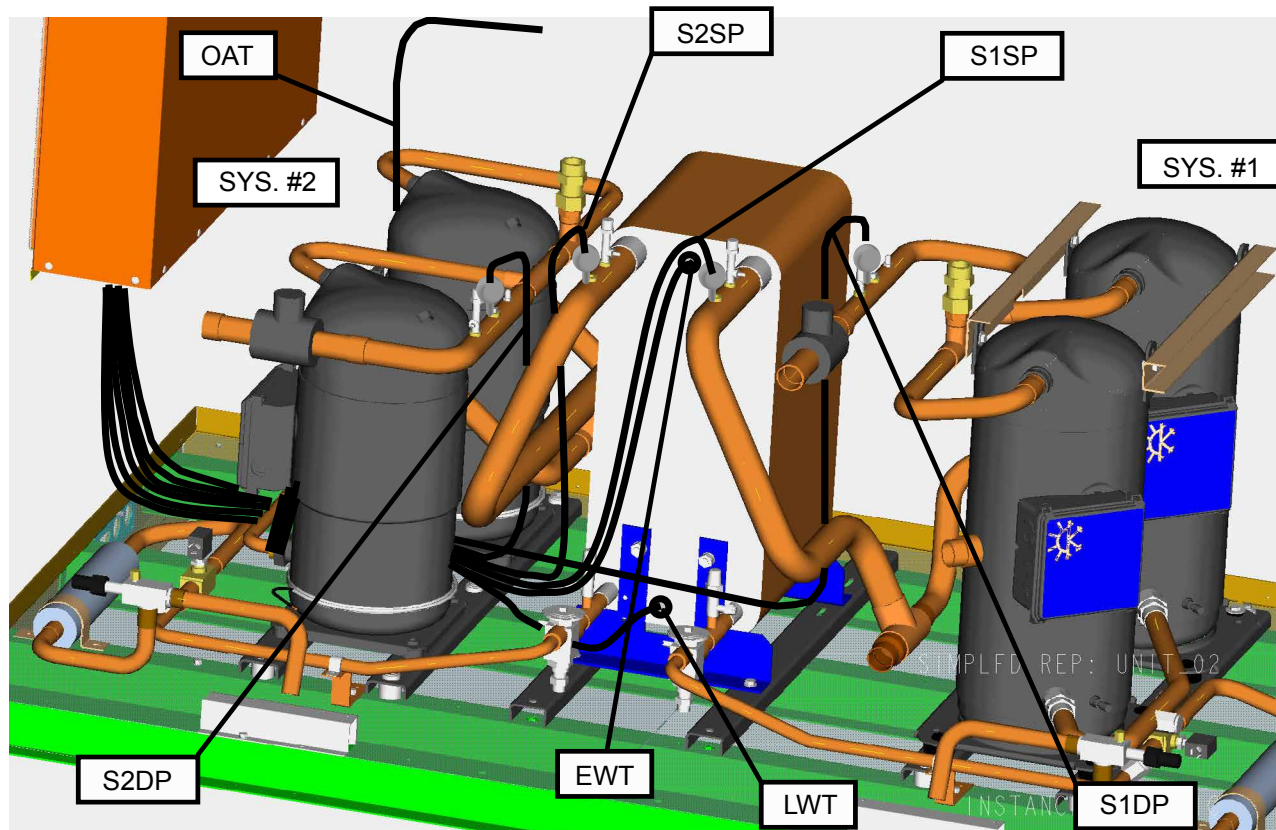


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FIGURE 16 - CONTROL WIRING HARNESSSES

TABLE 18 - SENSOR HARNESS WIRING

PLUG DETAIL	PLUG AND PIN PART NUMBER	PLUG "P" NUMBER	PLUG PIN NUMBER	WIRE COLOR	CABLE NUMBER	FUNCTION	HARNESS ASSEMBLY PART NUMBER	FIGURE
	Plug = 025-28384-000 Pin = 025-28386-000	P7	5	Red	S1SP	System #1 Suction Pressure	575-57126-310	17
			10	White				
			9	Black				
			1	Drain				
			6	Red	S1DP	System #1 Discharge Pressure	575-57126-315	
			11	White				
			7	Black				
2	Drain							
	Plug = 025-28384-000 Pin = 025-28386-000	P9	5	Red	S2SP	System #2 Suction Pressure	575-57126-311	
			10	White				
			9	Black				
			1	Drain				
			6	Red	S2DP	System #2 Discharge Pressure	575-57126-316	
			11	White				
			7	Black				
2	Drain							



58363-005

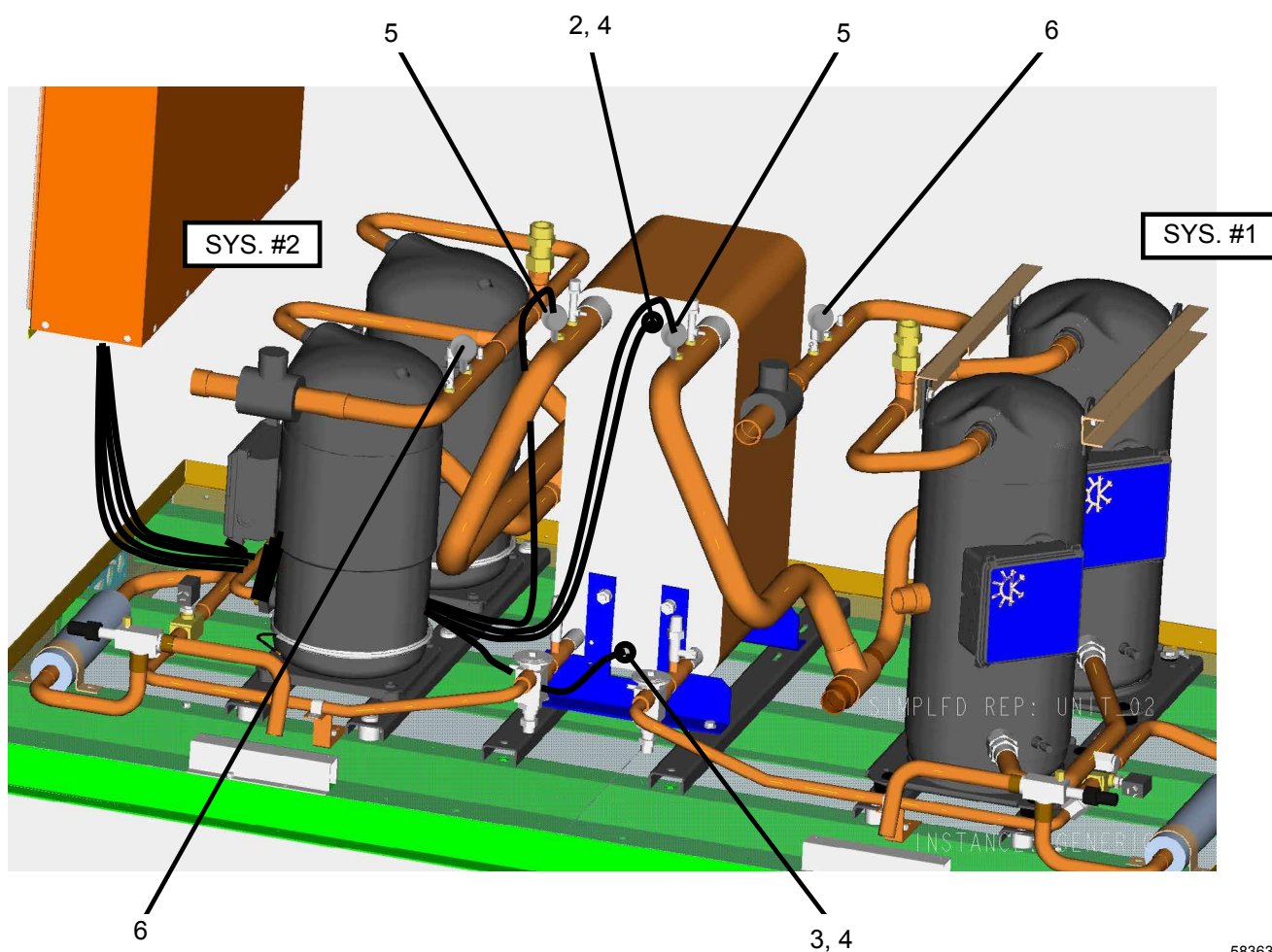
FIGURE 17 - SENSOR WIRING HARNESSES

TABLE 19 - TEMPERATURE SENSORS AND TRANSDUCERS

ITEM	QUANTITY	DESCRIPTION	MODELS	PART NUMBER	FIGURE
1 ^S	1	Sensor, Outside Air Temperature (Cable Included)	QTC2015T-QTC2030T	025-40273-008	Not Shown
			QTC2035T & QTC2040T	025-40273-006	
			QTC2045T	025-40273-003	
2 ^S	2	Sensor, Entering Water Temperature (Cable Included)	QTC2015T-QTC2030T, QTC2045T	025-40273-002	18
			QTC2035T-QTC2040T	025-40273-005	
3 ^S	2	Sensor, Leaving Water Temperature (Cable Included)	QTC2015T-QTC2030T, QTC2045T	025-40273-007	
			QTC2035T-QTC2040T	025-40273-004	
4	-	Compound, Heat Conductive**	All	013-00898-000	
5 ^S	2	Transducer, Suction Pressure (0-400psi)	All	025-41756-002	
6 ^S	2	Transducer, Discharge Pressure (0-650psi)	All	025-41756-003	

^S Recommended Spare Part

* **Note:** Used with items 2 and 3.



58363-005A

FIGURE 18 - TEMPERATURE SENSORS AND TRANSDUCERS

TABLE 20 - WIRE KIT OPTIONS

MODEL NUMBER	WIRE ENCLOSURE (FACTORY INSTALLED)	LOUVERED ENCLOSURE (FACTORY INSTALLED)	LOUVERED ENCLOSURE (FIELD INSTALLED)
QTC2015T, QTC2020T	375-61114-000	375-65188-000	575-65188-000
QTC2025T, QTC2030T	375-61115-000	375-65189-000	575-65189-000

Refer to Table 21 and 22.

TABLE 21 - WIRE ENCLOSURE PARTS (QTC2015T - QTC2030T)

ITEM	DESCRIPTION	QTC2015T & QTC2020T		QTC2025T & QTC2030T		FIGURE
		375-61114-000	QUANTITY	375-61115-000	QUANTITY	
1	WIRE PANEL, SIDES	026-41826-010	2	026-41826-009	2	19
2	WIRE PANEL, REAR	026-41826-011		026-41826-008		

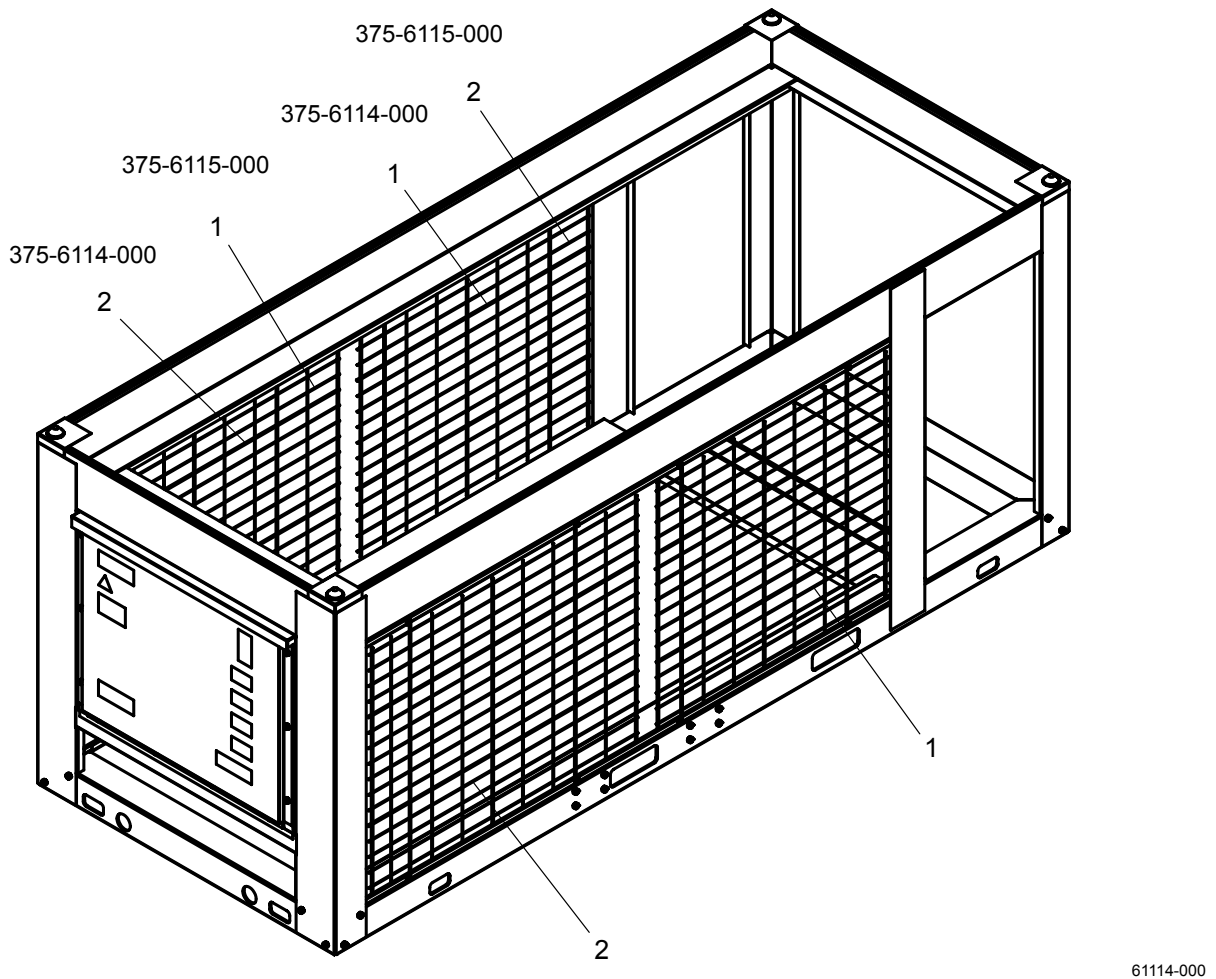
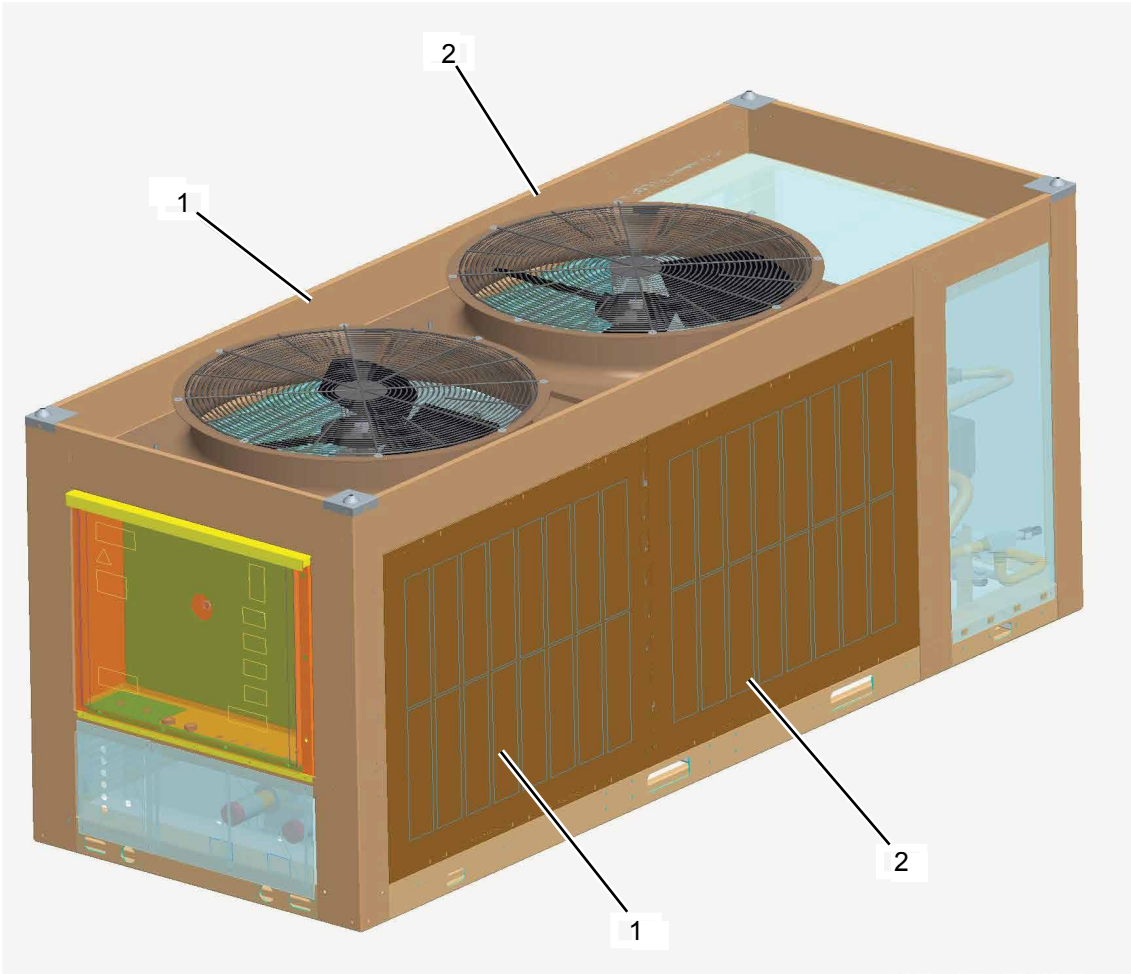


FIGURE 19 - WIRE ENCLOSURE PARTS

TABLE 22 - LOUVERED ENCLOSURE PARTS (QTC2015T - QTC2030T)

ITEM	DESCRIPTION	QTC2015T & QTC2020T		QTC2025T & QTC2030T		FIGURE
		375-65188-000/ 575-65188-000	QUANTITY	375-65189-000/ 575-65189-000	QUANTITY	
1	LOUVERED PANEL	075-60803-009	2	075-60803-010	2	20
2	LOUVERED PANEL	075-60803-008		075-60803-011		



60803-001

FIGURE 20 - LOUVERED ENCLOSURE PARTS

TABLE 23 - ENCLOSURE KIT OPTIONS (QTC2035T - QTC2045T)

MODEL NUMBER	WIRE ENCLOSURE (FACTORY INSTALLED)	LOUVERED ENCLOSURE (FACTORY INSTALLED)	LOUVERED ENCLOSURE (FIELD INSTALLED)
QTC2035T & QTC2040T	375-59527-000	375-59445-000	575-59445-000
QTC2045T	375-59526-000	375-59444-000	575-59444-000

Refer to Tables 24 and 25

TABLE 24 - WIRE ENCLOSURE PARTS (QTC2035T - QTC2045T)

ITEM	DESCRIPTION	QTC2035T & QTC2040T		QTC2045T		FIGURE
		375-59527-000	QUANTITY	375-59526-000	QUANTITY	
1	WIRE PANEL, SIDES	026-46034-005	2	026-46034-003	2	21
2	WIRE PANEL, REAR	026-46034-004	2	026-46034-002	2	

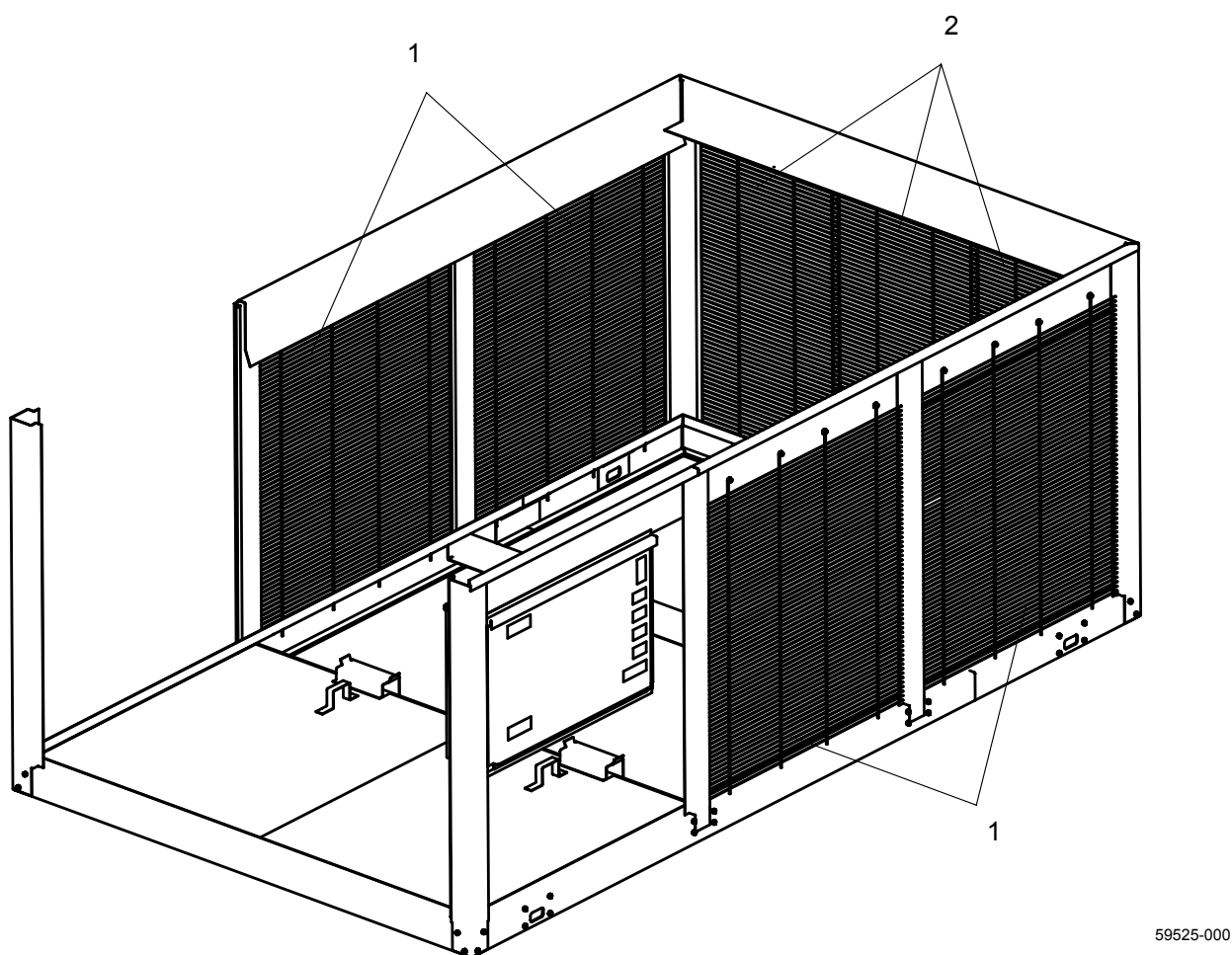
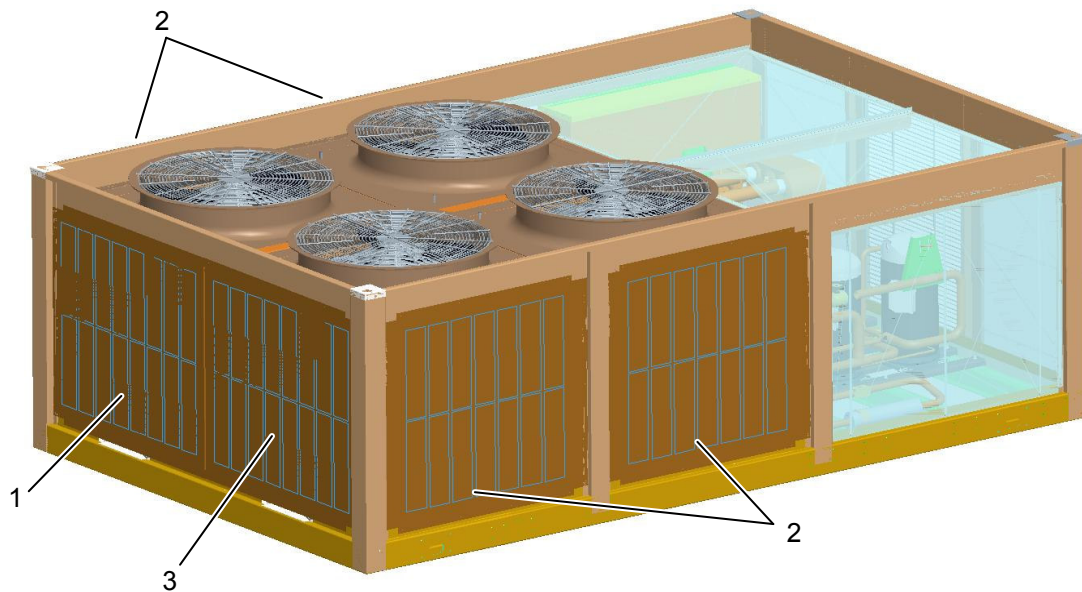


FIGURE 21 - WIRE ENCLOSURE PARTS

TABLE 25 - LOUVERED ENCLOSURE PARTS (QTC2035T - QTC2045T)

ITEM	DESCRIPTION	QTC2035T & QTC2040T		QTC2045T		FIGURE
		375-59445-000/ 575-59445-000	QUANTITY	375-59444-000/ 575-59444-000	QUANTITY	
1	LOUVERED PANEL	075-60803-012	1	075-60803-005	1	22
2	LOUVERED PANEL	075-60803-002	4	075-60803-004	4	
3	LOUVERED PANEL	075-60803-003	1	075-60803-006	1	



60803-000

FIGURE 22 - LOUVERED ENCLOSURE PARTS

TABLE 26 - VIBRATION ISOLATORS PART NUMBERS

ONE INCH DEFLECTION SPRING ISOLATOR CROSS REFERENCE
FOR UNITS WITH ALL POINT LOADS LESS THAN 1785 LBS. (637 KG.)

WEIGHT RANGE (lbs.)*	WEIGHT RANGE (kg.)	VENDOR PART NUMBER	COLOR	QUANTECH PART NUMBER
0 to 435 lbs.	0 to 197 kg.	CP-1D-510	Black	029-25334-002
435 to 766 lbs.	197 to 347 kg.	CP-1D-900	Dk.Green	029-25334-003
766 to 1021 lbs.	347 to 463 kg.	CP-1D-1200	Gray	029-25334-004
1021 to 1157 lbs.	463 to 525 kg.	CP-1D-1360	White	029-25334-005
1157 to 1785*** lbs.	525 to 810 kg.	CP-1D-1785N	Gray/Red	029-25334-006

FOR UNITS WITH ANY POINT LOAD ABOVE 1785 LBS. (637 KG.)

WEIGHT RANGE (lbs.)*	WEIGHT RANGE (kg.)	VENDOR PART NUMBER	COLOR	QUANTECH PART NUMBER
Up to 1149 lbs.	Up to 521 kg.	C2P-1D-1350	Dk.Purple	029-25334-008
1149 to 1531 lbs.	521 to 694 kg.	C2P-1D-1800	Dk.Green	029-25334-009
1531 to 2041 lbs.	694 to 926 kg.	C2P-1D-2400	Gray	029-25334-010
2041 to 2313 lbs.	926 to 1049 kg.	C2P-1D-1020	Gold	029-25334-012
2313 to 3570*** lbs.	1049 to 1619 kg.	C2P-1D-3570N	Gray/Red	029-25334-013

NEOPRENE ISOLATOR CROSS REFERENCE

WEIGHT RANGE (lbs.)**	WEIGHT RANGE (kg.)	VENDOR PART NUMBER	COLOR	QUANTECH PART NUMBER
Up to 826 lbs.	Up to 375 kg.	RD-3 Charcoal-WR	Charcoal	029-25335-001
826 to 1689 lbs.	375 to 766 kg.	RD-4 Brick Red-WR	Brick Red	029-25335-002
1689 to 4000*** lbs.	766 to 1814 kg.	RD-4 Charcoal-WR	Charcoal	029-25335-004

TWO INCH DEFLECTION, SEISMIC SPRING ISOLATOR CROSS REFERENCE

WEIGHT RANGE (lbs.)**	WEIGHT RANGE (kg.)	VENDOR PART NUMBER	COLOR	QUANTECH PART NUMBER
Up to 392 lbs.	Up to 178 kg.	Y2RSI-2D-460	Green	029-25336-006
392 to 605 lbs.	178 to 274 kg.	Y2RSI-2D-710	Dk.Brown	029-25336-008
605 to 741 lbs.	274 to 336 kg.	Y2RSI-2D-870	Red	029-25336-009
741 to 1021 lbs.	336 to 463 kg.	Y2RSI-2D-1200N	Red/Black	029-25336-010
1021 to 1438 lbs.	463 to 652 kg.	Y2RSI-2D-1690	Pink	029-25336-011
1438 to 2245 lbs.	652 to 1018 kg.	Y2RSI-2D-2640N	Pink/Gray	029-25336-012
2245 to 2619 lbs.	1018 to 1188 kg.	Y2RSI-2D-2870N	Pink/Gray/Orange	029-25336-013
2619 to 3740*** lbs.	1188 to 1696 kg.	Y2RSI-2D-3280N	Pink/Gray/Dk.Brown	029-25336-014

* Value is de-rated by 15%

**Value is de-rated by 25%

*** Value is not de-rated

Note: Isolators with 1" deflection (Pin 54=1) must be of the same class for the entire unit. (i.e. Must use C2Ps at all locations on a selected unit, or all CPs.)

TABLE 27 - FIELD INSTALLED OPTIONS KIT NUMBERS

MODEL NUMBER	HOT GAS BY-PASS SOLENOID VALVE W/ HARNESS * (1 CIRCUIT)	HOT GAS BY-PASS SOLENOID VALVE W/ HARNESS * (2 CIRCUITS)	MICRO GATEWAY	CHICAGO CODE RELIEF VALVE	DIFFERENTIAL PRESSURE SWITCH
QTC2015T & QTC2020T	375-65191-700	N/A	371-04455-010	375-65190-002	025-30919-000
QTC2025T & QTC2030T	375-65191-500		371-04455-010	375-58276-002	025-30919-000
QTC2035T & QTC2040T	375-59523-800	375-59523-821	371-04455-010	375-58276-002	025-30919-000
QTC2045T	375-59523-600	375-59523-621	371-04455-010	375-58276-002	025-30919-000

*Note: Hot Gas By-Pass Solenoid Valve Only: 025-34133-000

MODEL NUMBER	STANDARD 150# VICTAULIC FLANGE	OPTIONAL 300# VICTAULIC FLANGE	STANDARD 150# FLOW SWITCH	OPTIONAL 300# FLOW SWITCH	MOTOR CURRENT MODULE KIT	REMOTE CONTROL PANEL	SOUND BLANKET KIT
QTC2015T & QTC2020T	375-65186-001	375-65186-000	024-26116-100	024-12144-000	371-04101-001	371-02750-101	310-06507-717
QTC2025T	375-65186-001	375-65186-000	024-26116-100	024-12144-000	371-04101-001	371-02750-101	310-06507-736
QTC2030T	375-65186-001	375-65186-000	024-26116-100	024-12144-000	371-04101-001	371-02750-101	310-06507-720
QTC2035T & QTC2040T	375-59510-001	375-59510-000	024-26116-100	024-12144-000	371-04101-000	371-02750-101	310-06507-710
QTC2045T	375-59510-001	375-59510-000	024-26116-100	024-12144-000	371-04101-000	371-02750-101	310-06507-723

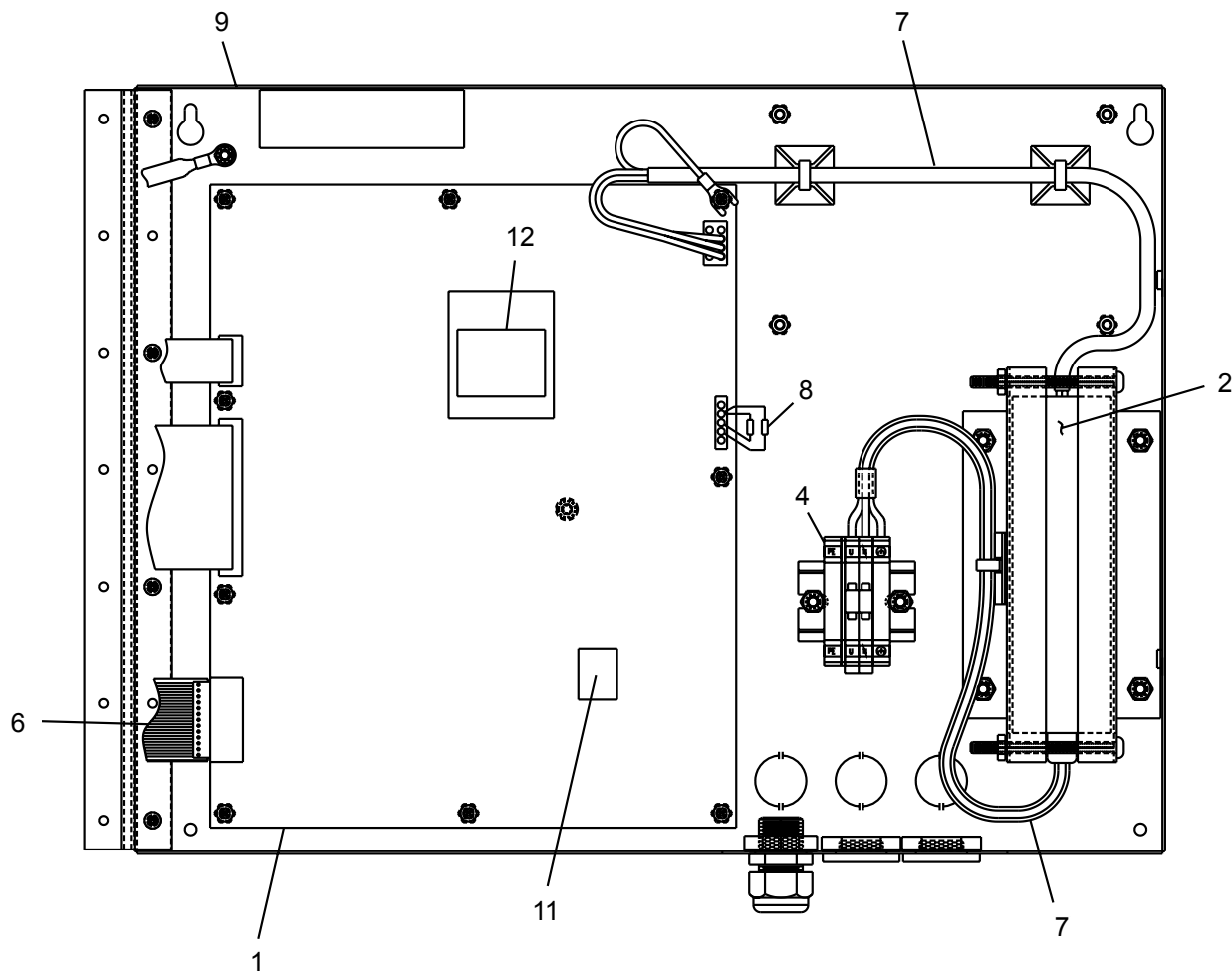
TABLE 28 - CONTROL TRANSFORMER KIT

MODEL NUMBERS	VOLTAGE	DESCRIPTION	PART NUMBER
QTC2015T - QTC2030T	-17	KIT, CONTROL TRANSFORMER	375-65193-101
	-28		375-65193-102
	-40		375-65193-103
	-46		375-65193-104
	-58		375-65193-106
QTC2035T - QTC2045T	-17		375-59641-101
	-28		375-59641-102
	-40		375-59641-103
	-46		375-59641-104
	-58		375-59641-106

TABLE 29 - OPTIVIEW REMOTE CONTROL CENTER PARTS

371-02750-101

ITEM NUMBER	QUANTITY	DESCRIPTION	PART NUMBER	FIGURE
1	1	MICROPROCESSOR BOARD	031-01730-002	23
2	1	POWER SUPPLY ASSEMBLY	371-02750-411	
3	1	KEYPAD	024-30974-001	Not Shown
4	1	TERMINAL BLOCK	025-35120-000	23
5	1	DISPLAY	331-02053-000	Not Shown
6	1	RIBBON CABLE	031-02056-000	23
7	1	WIRE CABLE	571-02750-421	
8	8	LAN TRANSIENT PROTECTION MODULE	031-01586-000	
9	1	COVER, REMOTE CONTROL	371-02750-311	
11	1	EPROM	031-01796-002	
12	1	FLASH MEMORY CARD	031-02057-001	



02750-3A

FIGURE 23 - OPTIVIEW REMOTE CONTROL CENTER PARTS

TABLE 30 - RECOMMENDED SPARE PARTS

DESCRIPTION	MODEL NUMBER	VOLTAGE CODE	PART NUMBER	REFERENCE LOCATION
Fan Motor (Standard)	QTC2015T & QTC2020T	17 & 28	024-35427-002	Figure 7 on page 16, Item 1
		40	024-35427-004	
		46	024-35427-001	
		58	024-35427-001	
			024-35427-003	
Fan Motor (Standard)	QTC2025T - QTC2045T	17	024-27322-103	Figure 8 on page 17, Item 1
		28	024-27322-106	
		40	024-27322-104	
		46	024-27322-207	
		58	024-27322-207	
			024-27322-102	
Fan Blade (Standard)	QTC2015T & QTC2020T	All	026-43008-000	Figure 7 on page 16, Item 2
	QTC2025T, QTC2030T & QTC2045T		026-41594-000	Figure 8 on page 17, Item 2
	QTC2035T - QTC2040T		026-41592-000	
Thermal Expansion Valve	QTC2015T & QTC2030T	All	025-40900-001	Table 9 on page 18, Item 1
			025-40900-002	
			025-40900-003	
			025-40900-006	
Valve, Stop (Liquid Line) (Single System)	QTC2015T - QTC2020T	All	022-11306-000	Table 9 on page 18, Item 4
	QTC2025T & QTC2030T		022-10022-000	
Valve, Stop (Liquid Line) (Dual System)	All	All	022-10022-000	Table 10 on page 18, Item 4
Oil, Compressor - (6) 1 Gallon	All	All	011-00948-000	Table 11 on page 22, Oil
Oil, Compressor - 5 Gallon	All	All	011-00949-000	
Sensor, Outside Air Temperature	QTC2015T - QTC2030T	All	025-40273-008	Table 19 on page 43, Item 1
	QTC2035T & QTC2040T		025-40273-006	
	QTC2045T		025-40273-003	
Sensor, Entering Water Temperature	QTC2015T - QTC2030T, QTC2045T	All	025-40273-002	Table 19 on page 43, Item 2
	QTC2035T & QTC2040T		025-40273-005	
Sensor, Leaving Water Temperature	QTC2015T - QTC2030T, QTC2045T	All	025-40273-007	Table 19 on page 43, Item 3
	QTC2035T & QTC2040T		025-40273-004	
Transducer, Suction Pressure	All	All	025-41756-002	Table 19 on page 43, Item 5
Transducer, Discharge Pressure	All	All	025-41756-003	Table 19 on page 43, Item 6

All parts should be purchased from your local
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