



## AIR-COOLED SCREW LIQUID CHILLERS

RENEWAL PARTS

New Release

Form: 201.21-RP3 (606)

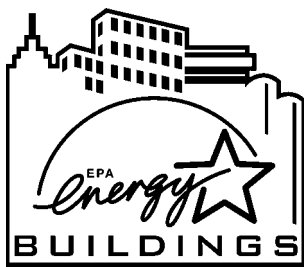
**MODELS YCAV0267, 0287, 0307, 0327, 0357, 0397, 0417,  
0457, 0477, 0507 and YCAV0527  
60 HERTZ**

**MODELS YCAV0969, 1039, 1139, 1169, 1309, 1429,  
1549, 1649, 1739, 1829 and YCAV1909  
50 HERTZ**

# LATITUDE™



Unit-7a



ALLY

260 - 520 TON  
R-134a  
STYLE "A"



200-3-60  
230-3-60  
315-3-60  
460-3-60  
380/415-3-50  
575-3-60  
MODELS ONLY

## CHANGEABILITY OF THIS DOCUMENT

In complying with YORK's policy for continuous improvement, the information contained in this document is subjected to change without notice. While YORK makes no commitment to update or provide current information automatically to the manual user, that information, if applicable, can be obtained by contacting the nearest YORK Engineered Systems Service office.

It is the responsibility of operating/service personnel as to the applicability of these documents to the equipment in question. If there is any question in the mind of operating/ service personnel as to the applicability of these documents, then, prior to working on the equipment, they should verify with the owner, whether the equipment has been modified and if the current literature is available.

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### **WARNING**

#### **HIGH VOLTAGE**

**Is used in the operation of this equipment.**

**DEATH OR SERIOUS INJURY**

**may result if personnel fail to observe safety precautions.**

Work on electronic equipment should not be undertaken unless the individual(s) have been trained in the proper maintenance of equipment and is (are) familiar with its potential hazards.

Shut off power supply to the equipment before beginning work and follow lockout procedures. When working inside equipment with power off, take care to discharge every capacitor likely to hold dangerous potential.

Be careful not to contact high voltage connections when installing or operating this equipment.

#### **LOW VOLTAGE**

DO NOT be misled by the term "low voltage." Voltages as low as 50 volts may cause death.

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# UNIT NOMENCLATURE NAMEPLATE ENGINEERING DATA

## BASIC PART NUMBER

# YCAV0287EA40VAA

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	
Y	C	A	V	0	2	8	7	E	A	1	7	:	A	:
: YORK : Chiller : Air Cooled V : Screw				Tons 0267/0969 P 0287/1039 E 0307/1139 V 0327/1169 0357/1309 0397/1429 0417/1549 0457/1649 0477/1739 0507/1829 0527/1909				Standard Standard Optimized High Efficiency High Efficiency Optimized	:R-134a	:200/3/60 :230/3/60 :380/3/60 :460/3/60 :380-415/3/50 :575/3/60 V :Variable Speed Drive			:Design Series A : :Engineering Change or PIN Level	

## PART NUMBER – LETTER CODES

16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	
POWER FIELD				CONTROLS FIELD								COMPRESSOR / PIPING FIELD										
S	X			X	T	C	B	M	S	F	G	I		#	#							
: SP TB : SP CB : SP TB w/ Ind. Sys. NF Disc. Sw. : SP CB w/ Ind. Sys. NF Disc. Sw. : MP Supply TB : MP CB : MP TB w/ Ind. Sys. NF Disc. Sw. : MP CB w/ Ind. Sys. NF Disc. Sw. : T : Control Transformer O : Convenience Outlet				: No Ambient Kit : Temp. Reset / Offset : Current Reset / Offset : Temp. and Current Reset / Offset : ISN Microgateway : Spanish LCD & Keypad Display : French LCD & Keypad Display : German LCD & Keypad Display : Italian LCD & Keypad Display : Portuguese LCD & Keypad Display : Silent Night : N. American Safety Code (cU.L./cETL) : No Listing (typically 50 Hz non-CE, non-U.L.) : Pump Control : OptiView Remote Panel S : Sequence Control & Automatic Lead Transfer								: Low Temp. Brine (LBrT) : Thermal Storage : Chicago Relief Code : Service Isolation Valve : Both Chicago Relief Code & Isolation Valve H : Compressor Heater										

**MP** = Multiple Point  
**SP** = Single Point  
**NF** = Non-Fused  
**TB** = Terminal Block  
**CB** = Circuit Breaker

38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54
EVAP. FIELD						CONDENSER FIELD			CABINET FIELD							
X							X	C	B	P	H	X	1	3	5	7
:150# PSI DWP :300# PSI DWP :Double Thick Insulation :Weld Flange :Victaulic Flange :Flow Switch :Diff. Press. Switch :ASME Pressure Vessel and Associated Codes :Remote Cooler						: Aluminum : Copper : Black Fin : Phenolic : Heat Recovery X : TEAO Fan Motors			: Wire (Full Unit) Enc. Panels (factory) : Wire/Louvered Enc. Panels (factory) : Louvered (Cond. Only) Enc. Panels (factory) : Louvered (Full Unit) Enc. Panels (factory) : Perimeter Sound Blanket : Acoustic Sound Blanket : Both Perimeter & Acoustic Sound Blanket : Low Sound Fans : High Static Fans 1 : 1" Deflection S : Seismic N : Neoprene Pads							

## 55 EXTENDED FIELD WARRANTY

X : 1 Year Parts Only	L : 1 Year Unit Labor, 2 Year Unit Parts, 5 Year Parts (Comp. Only)
B : 1 Year Parts & Labor	M : 1 Year Unit Labor, 2 Year Unit Parts, 5 Year Parts & Labor (Comp. Only)
C : 2 Year Parts Only	N : 2 Year Unit Parts, 5 Year Parts (Comp. Only)
D : 2 Year Parts & Labor	O : 2 Year Unit Parts & Labor, 5 Year Parts & Labor (Comp. Only)
E : 5 Year Parts (Comp. Only)	P : 2 Year Unit Parts & Labor, 5 Year Parts (Comp. Only)
F : 5 Year Parts & Labor (Comp. Only)	R : 2 Year Unit Parts & Labor, 5 Year Unit Parts
G : 5 Year Unit Parts Only	
H : 5 Year Unit Parts & Labor	
I : 1 Year Unit Parts, 2 Year Unit Labor	
J : 1 Year Unit Labor, 5 Year Parts (Comp. Only)	
K : 1 Year Unit Labor, 5 Year Unit Parts	

## 56 REFRIGERANT WARRANTY

X : No Refrigerant Warranty
1 : 1 Year Refrigerant
2 : 2 Year Refrigerant
5 : 5 Year Refrigerant

## 57 REFRIGERANT WARRANTY

A : Buy American Act Compliance
E : Export (shortened design)
F : Buy American Act Compliance & Export (shortened design)

## 61 PLANT OF MANUFACTURE

R : Monterrey
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### NOTES:

1. Q :DENOTES SPECIAL / S.Q.
2. # :DENOTES STANDARD
3. X :w/in OPTIONS FIELD, DENOTES NO OPTION SELECTED
4. Agency Files (i.e. U.L./ETL;CE;ARI;ETC.) will contain info. based on the first 14 characters only.
5. Plant of manufacture to include PIN 61 upon entering the chiller order.

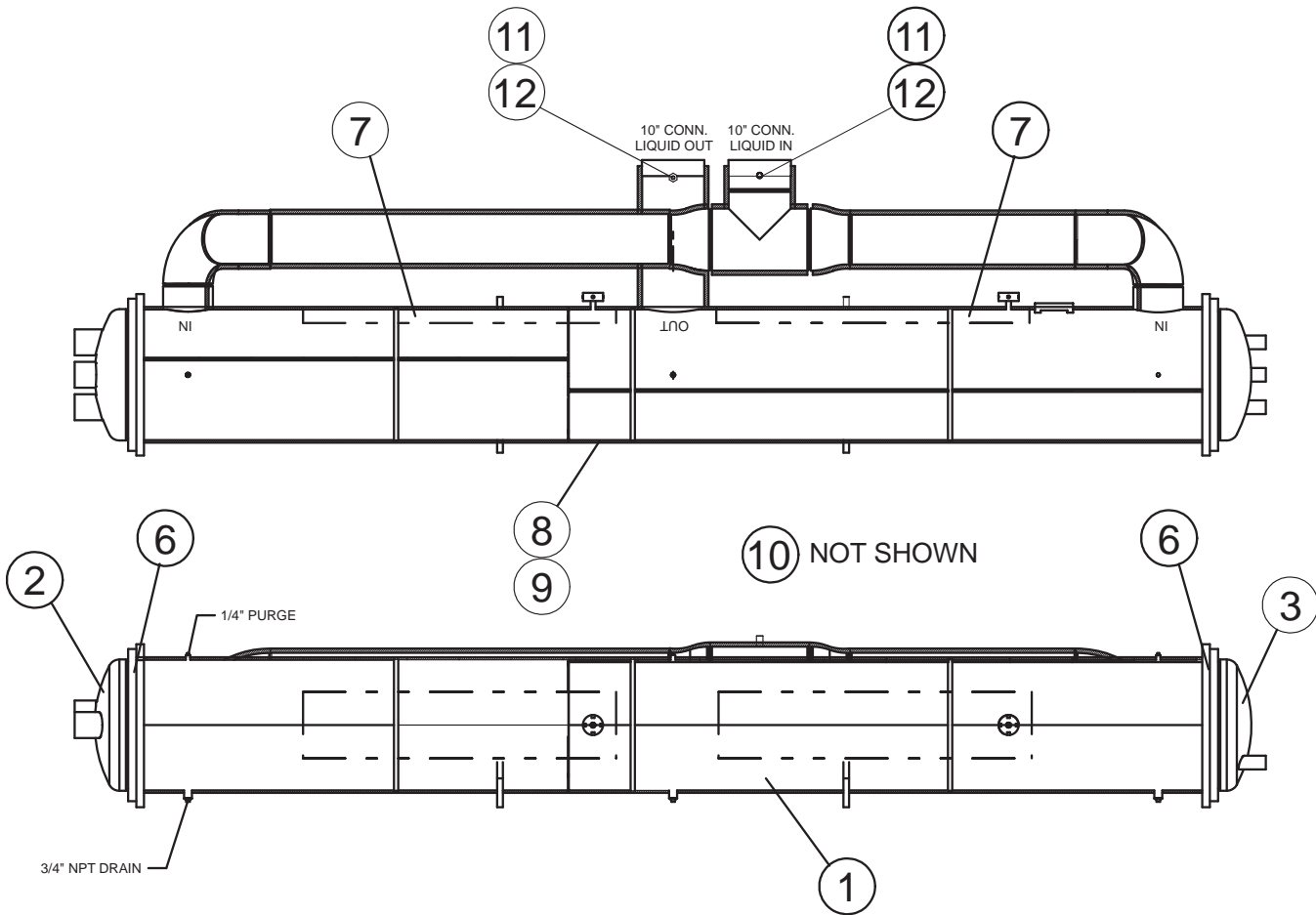
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# EVAPORATOR COMPONENTS

**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

**FIG. 1 – EVAPORATOR COMPONENTS (REF. TABLES 1 AND 1A, PAGES 7 AND 8)**

## EVAPORATOR COMPONENTS (CONT'D)

**TABLE 1 – EVAPORATOR COMPONENTS - STANDARD EFFICIENCY 'PIN 9 = S OR P'**  
(SEE FIG. 1, PAGE 6)

ITEM NUMBER	QTY PER UNIT	DESCRIPTION	DWP	UNIT MODELS YCAV0287 AND YCAV1039 375-59414-001	UNIT MODELS YCAV0307, 1139, 0357, 1309, 0397 AND YCAV1429 375-60823-001
1	1	Evaporator, less Heater & Insulation	ALL	375-59380-000	375-60824-000
2	1	Head, Connection End	ALL	375-59382-000	375-60849-000
3	1	Head, Back End	ALL	375-59384-000	375-60856-000
6	4	Gasket, Head	ALL	075-59398-000	028-15138-000
7	2	Heater, Cooler 280 Watt	ALL	025-22691-000	025-22691-000
8	-	Insulation (3/4"x49"x65")	ALL	010-05997-000	010-05997-000
9	-	Insulation (1 1/2"x49"x65")		010-05998-000	010-05998-000
10	1 qt.	Adhesive (Use with #6)	ALL	013-03311-000	
11	2	Sensor, Water Temperature	ALL	025-40334-000	025-40334-000
12	2	Well, Thermo	ALL	026-33627-000	026-33427-000

ITEM NUMBER	QTY PER UNIT	DESCRIPTION	DWP	UNIT MODELS YCAV0417, 1549, 0457 AND YCAV1649 375-60900-001	UNIT MODELS YCAV0477, 1739, 0507, 1829, 0527 AND YCAV1909 375-58637-001
1	1	Evaporator, less Heater & Insulation	ALL	375-60901-000	375-58638-000
2	1	Head, Connection End	ALL	375-60905-000	375-59568-000
3	1	Head, Back End	ALL	375-60907-000	375-59571-000
6	6	Gasket, Head	ALL	028-15138-000	028-15138-000
7	2	Heater, Cooler 280 Watt	ALL	025-22691-000	025-22691-000
8	-	Insulation (3/4"x49"x65")	ALL	010-05997-000	010-05997-000
9	-	Insulation (1 1/2"x49"x65")		010-05998-000	010-05998-000
10	1 qt.	Adhesive (Use with #6)	ALL	013-03311-000	
11	2	Sensor, Water Temperature	ALL	025-40334-000	025-40334-000
12	2	Well, Thermo	ALL	026-33627-000	026-33627-000

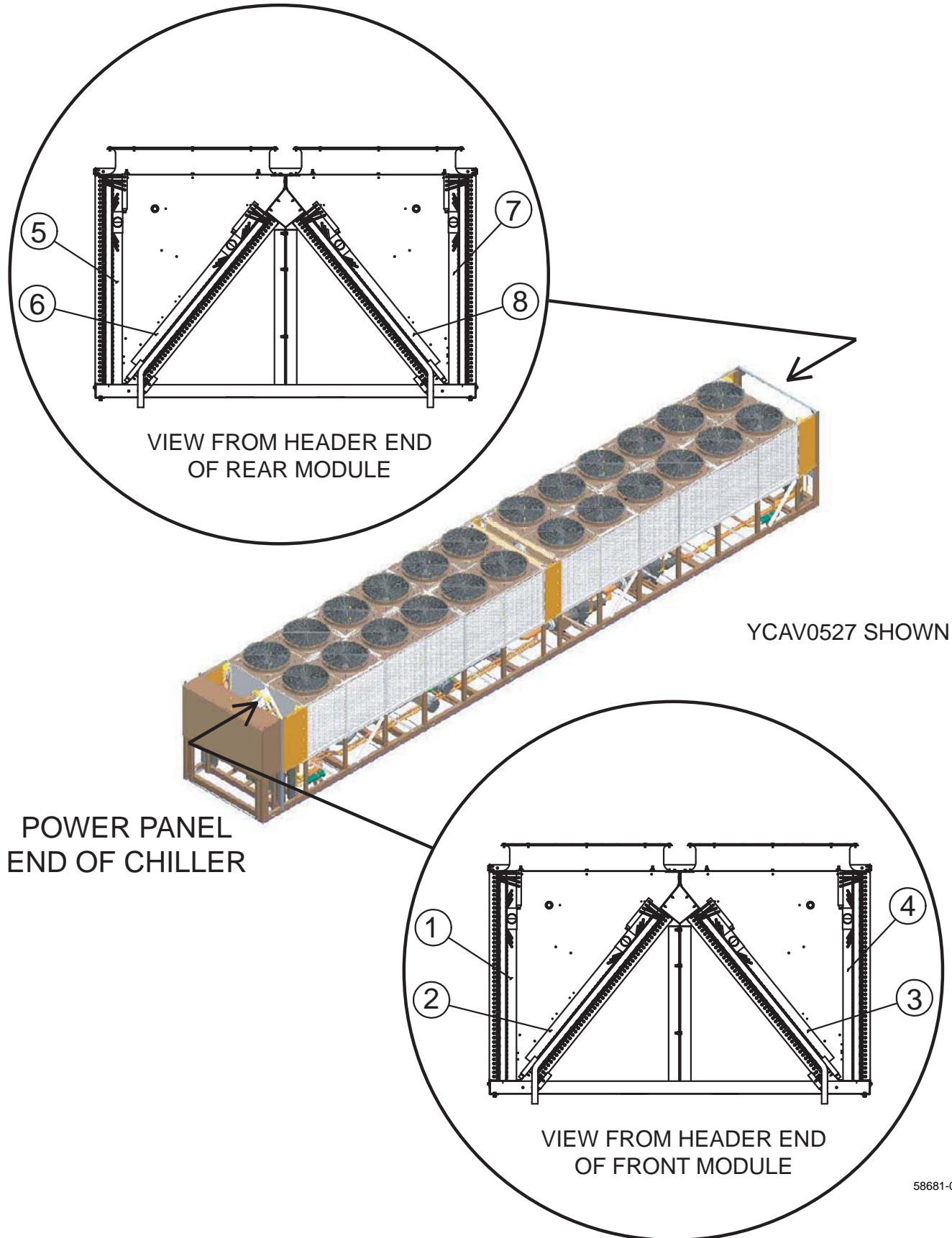
## EVAPORATOR COMPONENTS (CONT'D)

**TABLE 1A – EVAPORATOR COMPONENTS - HIGH EFFICIENCY 'PIN 9 = E OR V'**  
(SEE FIG. 1, PAGE 6)

ITEM NUMBER	QTY PER UNIT	DESCRIPTION	DWP	UNIT MODELS YCAV0267, 0969, 0287 AND YCAV1039 375-59414-001	UNIT MODELS YCAV0327, 1169, 0357 AND YCAV1309 375-60823-001
1	1	Evaporator, less Heater & Insulation	ALL	375-59380-000	375-60824-000
2	1	Head, Connection End	ALL	375-59382-000	375-60849-000
3	1	Head, Back End	ALL	375-59384-000	375-60856-000
6	4	Gasket, Baffle and Head	ALL	075-59398-000	028-15138-000
7	2	Heater, Cooler 280 Watt		025-22691-000	025-22691-000
8	-	Insulation (3/4"x49"x65")	ALL	010-05997-000	010-05997-000
9	-	Insulation (1 1/2"x49"x65")		010-05998-000	010-05998-000
10	1 qt.	Adhesive (Use with #6)	ALL	013-03311-000	
11	2	Sensor, Water Temperature	ALL	025-40334-000	025-40334-000
12	2	Well, Thermo	ALL	026-33627-000	026-33427-000

ITEM NUMBER	QTY PER UNIT	DESCRIPTION	DWP	UNIT MODELS YCAV0397 AND YCAV1429 375-60900-001	UNIT MODELS YCAV0417, 1549, 0477 AND YCAV1739 375-58637-001
1	1	Evaporator, less Heater & Insulation	ALL	375-60901-000	375-58638-000
2	1	Head, Connection End	ALL	375-60905-000	375-59568-000
3	1	Head, Back End	ALL	375-60907-000	375-59571-000
6	4	Gasket, Baffle and Head	ALL	028-15138-000	028-15138-000
7	2	Heater, Cooler 280 Watt	ALL	025-22691-000	025-22691-000
8	-	Insulation (3/4"x49"x65")	ALL	010-05997-000	010-05997-000
9	-	Insulation (1 1/2"x49"x65")		010-05998-000	010-05998-000
10	1 qt.	Adhesive (Use with #6)	ALL	013-03311-000	
11	2	Sensor, Water Temperature	ALL	025-40334-000	025-40334-000
12	2	Well, Thermo	ALL	026-33627-000	026-33627-000

# CONDENSER COIL COMPONENTS



Condenser

**FIG. 2 – CONDENSER COIL COMPONENTS**  
(REF. TABLES 2 AND 2A, PAGES 10 THRU 15)

# CONDENSER COIL COMPONENTS (CONT'D)

**TABLE 2 – CONDENSER COIL COMPONENTS - STANDARD 'PIN 9 = S OR P'**  
(SEE FIG. 2, PAGE 9)

ITEM NUMBER	DESCRIPTION	SYSTEM	QTY	MODELS YCAV0287 AND YCAV1039	MODELS YCAV0307 AND YCAV1139	MODELS YCAV0357 AND YCAV1309
<b>ALUMINUM COILS</b>						
1	Coil Assembly Front Module*	Sys 1	1	375-55350-001	375-55350-001	375-55350-001
2			1	375-55350-002	375-55350-002	375-55350-002
3		Sys 2	1	375-55356-003	375-55350-003	375-55350-003
4			1	375-55356-004	375-55350-004	375-55350-004
5	Coil Assembly Rear Module*	Sys 3	1	375-51010-001	375-51010-001	375-51014-001
6			1	375-51010-002	375-51010-002	375-51014-002
7		Sys 4	1	375-51010-003	375-51010-003	375-51014-003
8			1	375-51010-004	375-51010-004	375-51014-004
<b>COPPER COILS</b>						
1	Coil Assembly Front Module*	Sys 1	1	375-55350-005	375-55350-005	375-55350-005
2			1	375-55350-006	375-55350-006	375-55350-006
3		Sys 2	1	375-55356-007	375-55350-007	375-55350-007
4			1	375-55356-008	375-55350-008	375-55350-008
5	Coil Assembly Rear Module*	Sys 3	1	375-51010-005	375-51010-005	375-51014-005
6			1	375-51010-006	375-51010-006	375-51014-006
7		Sys 4	1	375-51010-007	375-51010-007	375-51014-007
8			1	375-51010-008	375-51010-008	375-51014-008
<b>BLACK FIN COILS</b>						
1	Coil Assembly Front Module*	Sys 1	1	375-55350-009	375-55350-009	375-55350-009
2			1	375-55350-010	375-55350-010	375-55350-010
3		Sys 2	1	375-55356-011	375-55350-011	375-55350-011
4			1	375-55356-012	375-55350-012	375-55350-012
5	Coil Assembly Rear Module*	Sys 3	1	375-51010-009	375-51010-009	375-51014-009
6			1	375-51010-010	375-51010-010	375-51014-010
7		Sys 4	1	375-51010-011	375-51010-011	375-51014-011
8			1	375-51010-012	375-51010-012	375-51014-012
<b>PHENOLIC COILS</b>						
1	Coil Assembly Front Module*	Sys 1	1	375-58328-005	375-58328-005	375-58328-005
2			1	375-58328-006	375-58328-006	375-58328-006
3		Sys 2	1	375-58328-003	375-58328-007	375-58328-007
4			1	375-58328-004	375-58328-008	375-58328-008
5	Coil Assembly Rear Module*	Sys 3	1	375-58328-013	375-58328-013	375-58328-017
6			1	375-58328-014	375-58328-014	375-58328-018
7		Sys 4	1	375-58328-015	375-58328-015	375-58328-019
8			1	375-58328-016	375-58328-016	375-58328-020

\*Note: Coil Assembly includes coil and headers.

## CONDENSER COIL COMPONENTS (CONT'D)

**TABLE 2 (CONT'D) – CONDENSER COIL COMPONENTS - STANDARD 'PIN 9 = S OR P'**  
(SEE FIG. 2, PAGE 9)

ITEM NUMBER	DESCRIPTION	SYSTEM	QTY	MODELS YCAV0397 AND YCAV1429	MODELS YCAV0417 AND YCAV1549	MODELS YCAV0457 AND YCAV1649
<b>ALUMINUM FIN COILS</b>						
1	Coil Assembly Front Module*	Sys 1	1	375-54395-001	375-55350-001	375-54395-001
2			1	375-54395-002	375-55350-002	375-54395-002
3		Sys 2	1	375-54395-003	375-55350-003	375-55350-003
4			1	375-54395-004	375-55350-004	375-55350-004
5	Coil Assembly Rear Module*	Sys 3	1	375-51014-001	375-55350-001	375-55350-001
6			1	375-51014-002	375-55350-022	375-55350-022
7		Sys 4	1	375-51014-003	375-55350-023	375-55350-023
8			1	375-51014-004	375-55350-004	375-55350-004
<b>BLACK FIN COILS</b>						
1	Coil Assembly Front Module*	Sys 1	1	375-54395-005	375-55350-005	375-54395-005
2			1	375-54395-006	375-55350-006	375-54395-006
3		Sys 2	1	375-54395-007	375-55350-007	375-54395-007
4			1	375-54395-008	375-55350-008	375-54395-008
5	Coil Assembly Rear Module*	Sys 3	1	375-51014-005	375-54395-005	375-55350-005
6			1	375-51014-006	375-54395-026	375-55350-026
7		Sys 4	1	375-51014-007	375-54395-027	375-55350-027
8			1	375-51014-008	375-54395-008	375-55350-008
<b>PHENOLIC COILS</b>						
1	Coil Assembly Front Module*	Sys 1	1	375-54395-009	375-55350-009	375-54395-009
2			1	375-54395-010	375-55350-010	375-54395-010
3		Sys 2	1	375-54395-011	375-55350-011	375-55350-011
4			1	375-54395-012	375-55350-012	375-55350-012
5	Coil Assembly Rear Module*	Sys 3	1	375-51014-009	375-55350-009	375-55350-009
6			1	375-51014-010	375-55350-020	375-55350-020
7		Sys 4	1	375-51014-011	375-55350-021	375-55350-021
8			1	375-51014-012	375-55350-012	375-55350-012
<b>COPPER COILS</b>						
1	Coil Assembly Front Module*	Sys 1	1	375-58328-009	375-58328-005	375-58328-009
2			1	375-58328-010	375-58328-006	375-58328-010
3		Sys 2	1	375-58328-011	375-58328-007	375-58328-007
4			1	375-58328-012	375-58328-008	375-58328-008
5	Coil Assembly Rear Module*	Sys 3	1	375-58328-017	375-58328-005	375-58328-005
6			1	375-58328-018	375-58328-026	375-58328-006
7		Sys 4	1	375-58328-019	375-58328-027	375-58328-007
8			1	375-58328-020	375-58328-008	375-58328-008

\*Note: Coil Assembly includes coil and headers.

# CONDENSER COIL COMPONENTS (CONT'D)

**TABLE 2 (CONT'D) – CONDENSER COIL COMPONENTS - STANDARD 'PIN 9 = S OR P'**  
(SEE FIG. 2, PAGE 9)

ITEM NUMBER	DESCRIPTION	SYSTEM	QTY	MODELS YCAV0477 AND YCAV1739	MODELS YCAV0507 AND YCAV1829	MODELS YCAV0527 AND YCAV1909
<b>ALUMINUM FIN COILS</b>						
1	Coil Assembly Front Module*	Sys 1	1	375-54395-001	375-54395-001	375-54395-001
2			1	375-54395-002	375-54395-002	375-54395-002
3		Sys 2	1	375-54395-003	375-54395-003	375-54395-003
4			1	375-54395-004	375-54395-004	375-54395-004
5	Coil Assembly Rear Module*	Sys 3	1	375-55350-001	375-54395-001	375-54395-001
6			1	375-55350-022	375-54395-022	375-54395-022
7		Sys 4	1	375-55350-023	375-55350-023	375-54395-023
8			1	375-55350-004	375-55350-004	375-54395-004
<b>BLACK FIN COILS</b>						
1	Coil Assembly Front Module*	Sys 1	1	375-54395-005	375-54395-005	375-54395-005
2			1	375-54395-006	375-54395-006	375-54395-006
3		Sys 2	1	375-54395-007	375-54395-007	375-54395-007
4			1	375-54395-008	375-54395-008	375-54395-008
5	Coil Assembly Rear Module*	Sys 3	1	375-55350-005	375-54395-005	375-54395-005
6			1	375-55350-026	375-54395-026	375-54395-026
7		Sys 4	1	375-55350-027	375-54395-027	375-54395-027
8			1	375-55350-008	375-54395-008	375-54395-008
<b>PHENOLIC COILS</b>						
1	Coil Assembly Front Module*	Sys 1	1	375-54395-009	375-54395-009	375-54395-009
2			1	375-54395-010	375-54395-010	375-54395-010
3		Sys 2	1	375-54395-011	375-54395-011	375-54395-011
4			1	375-54395-012	375-54395-012	375-54395-012
5	Coil Assembly Rear Module*	Sys 3	1	375-55350-009	375-54395-009	375-54395-009
6			1	375-55350-020	375-54395-020	375-54395-020
7		Sys 4	1	375-55350-021	375-55350-021	375-54395-021
8			1	375-55350-012	375-55350-012	375-54395-012
<b>COPPER COILS</b>						
1	Coil Assembly Front Module*	Sys 1	1	375-58328-009	375-58328-009	375-58328-009
2			1	375-58328-010	375-58328-010	375-58328-010
3		Sys 2	1	375-58328-011	375-58328-011	375-58328-011
4			1	375-58328-012	375-58328-012	375-58328-012
5	Coil Assembly Rear Module*	Sys 3	1	375-58328-005	375-58328-009	375-58328-009
6			1	375-58328-006	375-58328-020	375-58328-020
7		Sys 4	1	375-58328-007	375-58328-027	375-58328-021
8			1	375-58328-008	375-58328-008	375-58328-012

\*Note: Coil Assembly includes coil and headers.

## CONDENSER COIL COMPONENTS (CONT'D)

**TABLE 2A (CONT'D) – CONDENSER COIL COMPONENTS - HIGH EFFICIENCY 'PIN 9 = E OR V' (SEE FIG. 2, PAGE 9)**

ITEM NUMBER	DESCRIPTION	SYSTEM	QTY	MODELS YCAV0267 AND YCAV969	MODELS YCAV0287 AND YCAV1039	MODELS YCAV0327 AND YCAV1169
<b>ALUMINUM FIN COILS</b>						
1	Coil Assembly Front Module*	Sys 1	1	375-55350-001	375-55350-001	375-55350-001
2			1	375-55350-002	375-55350-002	375-55350-002
3		Sys 2	1	375-55350-003	375-55350-003	375-55350-003
4			1	375-55350-004	375-55350-004	375-55350-004
5	Coil Assembly Rear Module*	Sys 3	1	375-51010-001	375-51014-001	375-51014-001
6			1	375-51010-002	375-51014-002	375-51014-002
7		Sys 4	1	375-51010-003	375-51014-003	375-51014-003
8			1	375-51010-004	375-51014-004	375-51014-004
<b>BLACK FIN COILS</b>						
1	Coil Assembly Front Module*	Sys 1	1	375-55350-005	375-55350-005	375-55350-005
2			1	375-55350-006	375-55350-006	375-55350-006
3		Sys 2	1	375-55350-007	375-55350-007	375-55350-007
4			1	375-55350-008	375-55350-008	375-55350-008
5	Coil Assembly Rear Module*	Sys 3	1	375-51010-005	375-51014-005	375-51014-005
6			1	375-51010-006	375-51014-006	375-51014-006
7		Sys 4	1	375-51010-007	375-51010-007	375-51014-007
8			1	375-51010-008	375-51010-008	375-51014-008
<b>PHENOLIC COILS</b>						
1	Coil Assembly Front Module*	Sys 1	1	375-55350-009	375-55350-009	375-55350-009
2			1	375-55350-010	375-55350-010	375-55350-010
3		Sys 2	1	375-55350-011	375-55350-011	375-55350-011
4			1	375-55350-012	375-55350-012	375-55350-012
5	Coil Assembly Rear Module*	Sys 3	1	375-51010-009	375-51014-009	375-51014-009
6			1	375-51010-010	375-51014-010	375-51014-010
7		Sys 4	1	375-51010-011	375-51010-011	375-51014-011
8			1	375-51010-012	375-51010-012	375-51014-012
<b>COPPER COILS</b>						
1	Coil Assembly Front Module*	Sys 1	1	375-58328-005	375-58328-005	375-58328-005
2			1	375-58328-006	375-58328-006	375-58328-006
3		Sys 2	1	375-58328-007	375-58328-007	375-58328-007
4			1	375-58328-008	375-58328-008	375-58328-008
5	Coil Assembly Rear Module*	Sys 3	1	375-58328-013	375-58328-017	375-58328-017
6			1	375-58328-014	375-58328-018	375-58328-018
7		Sys 4	1	375-58328-015	375-58328-015	375-58328-019
8			1	375-58328-016	375-58328-016	375-58328-020

**\*Note:** Coil Assembly includes coil and headers.

# CONDENSER COIL COMPONENTS (CONT'D)

**TABLE 2A – CONDENSER COIL COMPONENTS - HIGH EFFICIENCY 'PIN 9 = E OR V'**  
(SEE FIG. 2, PAGE 9)

ITEM NUMBER	DESCRIPTION	SYSTEM	QTY	MODELS	MODELS
				YCAV0357 AND YCAV1309	YCAV0397 AND YCAV1429
<b>ALUMINUM COILS</b>					
1	Coil Assembly Front Module*	Sys 1	1	375-54395-001	375-55350-001
2			1	375-54395-002	375-55350-002
3		Sys 2	1	375-54395-003	375-55350-003
4			1	375-54395-004	375-55350-004
5	Coil Assembly Rear Module*	Sys 3	1	375-51014-001	375-55350-001
6			1	375-51014-002	375-55350-022
7		Sys 4	1	375-51014-003	375-55350-023
8			1	375-51014-004	375-55350-004
<b>COPPER COILS</b>					
1	Coil Assembly Front Module*	Sys 1	1	375-54395-005	375-55350-005
2			1	375-54395-006	375-55350-006
3		Sys 2	1	375-54395-007	375-55350-007
4			1	375-54395-008	375-55350-008
5	Coil Assembly Rear Module*	Sys 3	1	375-51014-005	375-55350-005
6			1	375-51014-006	375-55350-026
7		Sys 4	1	375-51014-007	375-55350-027
8			1	375-51014-008	375-55350-008
<b>BLACK FIN COILS</b>					
1	Coil Assembly Front Module*	Sys 1	1	375-54395-009	375-55350-009
2			1	375-54395-010	375-55350-010
3		Sys 2	1	375-54395-011	375-55350-011
4			1	375-54395-012	375-55350-012
5	Coil Assembly Rear Module*	Sys 3	1	375-51014-009	375-55350-009
6			1	375-51014-010	375-55350-020
7		Sys 4	1	375-51014-011	375-55350-021
8			1	375-51014-012	375-55350-012
<b>PHENOLIC COILS</b>					
1	Coil Assembly Front Module*	Sys 1	1	375-58328-009	375-58328-005
2			1	375-58328-010	375-58328-006
3		Sys 2	1	375-58328-011	375-58328-007
4			1	375-58328-012	375-58328-008
5	Coil Assembly Rear Module*	Sys 3	1	375-58328-017	375-58328-005
6			1	375-58328-018	375-58328-026
7		Sys 4	1	375-58328-019	375-58328-027
8			1	375-58328-020	375-58328-008

\*Note: Coil Assembly includes coil and headers.

## CONDENSER COIL COMPONENTS (CONT'D)

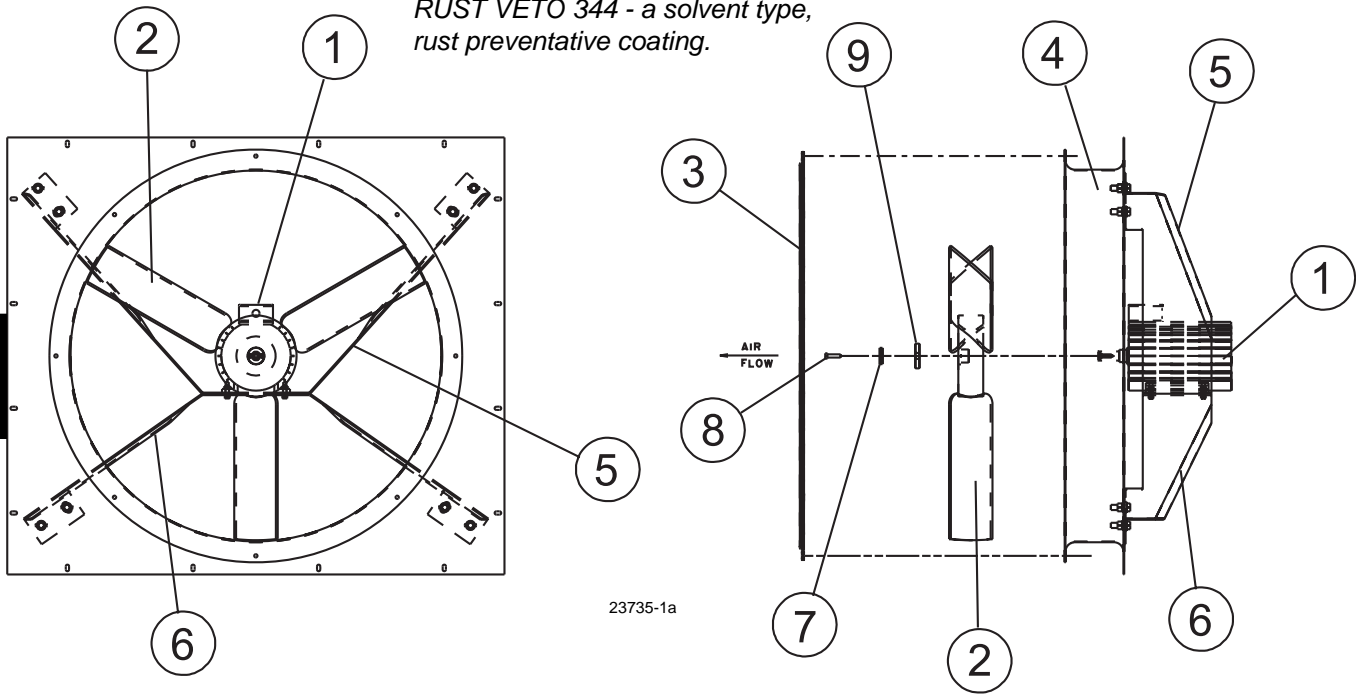
**TABLE 2A – CONDENSER COIL COMPONENTS - HIGH EFFICIENCY 'PIN 9 = E OR V'**  
(SEE FIG. 2, PAGE 9)

ITEM NUMBER	DESCRIPTION	SYSTEM	QTY	MODELS YCAV0417 AND YCAV1549	MODELS YCAV0477 AND YCAV1739
<b>ALUMINUM COILS</b>					
1	Coil Assembly Front Module*	Sys 1	1	375-54395-001	375-54395-001
2			1	375-54395-002	375-54395-002
3		Sys 2	1	375-54395-003	375-54395-003
4			1	375-54395-004	375-54395-004
5	Coil Assembly Rear Module*	Sys 3	1	375-55350-001	375-54395-001
6			1	375-55350-022	375-54395-022
7		Sys 4	1	375-55350-023	375-54395-023
8			1	375-55350-004	375-54395-004
<b>COPPER COILS</b>					
1	Coil Assembly Front Module*	Sys 1	1	375-54395-005	375-54395-005
2			1	375-54395-006	375-54395-006
3		Sys 2	1	375-54395-007	375-54395-007
4			1	375-54395-008	375-54395-008
5	Coil Assembly Rear Module*	Sys 3	1	375-55350-005	375-54395-005
6			1	375-55350-026	375-54395-026
7		Sys 4	1	375-55350-027	375-54395-027
8			1	375-55350-008	375-54395-008
<b>BLACK FIN COILS</b>					
1	Coil Assembly Front Module*	Sys 1	1	375-54395-009	375-54395-009
2			1	375-54395-010	375-54395-010
3		Sys 2	1	375-54395-011	375-54395-011
4			1	375-54395-012	375-54395-012
5	Coil Assembly Rear Module*	Sys 3	1	375-55350-009	375-54395-009
6			1	375-55350-020	375-54395-020
7		Sys 4	1	375-55350-021	375-54395-021
8			1	375-55350-012	375-54395-012
<b>PHENOLIC COILS</b>					
1	Coil Assembly Front Module*	Sys 1	1	375-58328-009	375-58328-009
2			1	375-58328-010	375-58328-010
3		Sys 2	1	375-58328-011	375-58328-011
4			1	375-58328-012	375-58328-012
5	Coil Assembly Rear Module*	Sys 3	1	375-58328-005	375-58328-009
6			1	375-58328-006	375-58328-020
7		Sys 4	1	375-58328-007	375-58328-021
8			1	375-58328-008	375-58328-012

\*Note: Coil Assembly includes coil and headers.

# FAN COMPONENTS

**Service Note:**  
 Fan Hub to Shaft Joint should be sealed with protective coating - use 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 Low Noise Fan. See page 4.

**FIG. 3 – FAN COMPONENTS**

**TABLE 3 – FAN COMPONENTS**

ITEM NUMBER	DESCRIPTION	VOLTAGE CODE	FAN TYPE	
			STANDARD 7/8", 1160 RPM	ULTRA QUIET 7/8", 850 RPM
1 <sup>s</sup>	Motor, Fan 2 HP (YCAV0267-YCAV0527) (YCAV0969-YCAV1909)	-17	024-27322-007	024-34980-001
		-28		
		-40		
		-46		
		-50		
	-58			
2 <sup>s</sup>	Blade	All	026-41594-000	026-41942-000
3	Guard	All	026-35605-000	
4	Orifice	All	026-41609-000	
5	Support	All	026-41937-000	026-41938-000
6	Support Ring	All	026-36367-000	
7	Spacer (.375 I.D.)	All	075-29007-000	
8	Screw, Cap (M8x125)	All	021-18494-000	
9	Spacer (1.406 I.D.)	All	075-40484-000	

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

# REFRIGERANT PIPING COMPONENTS

## 3 COMPRESSOR YCAV CHILLER MODELS

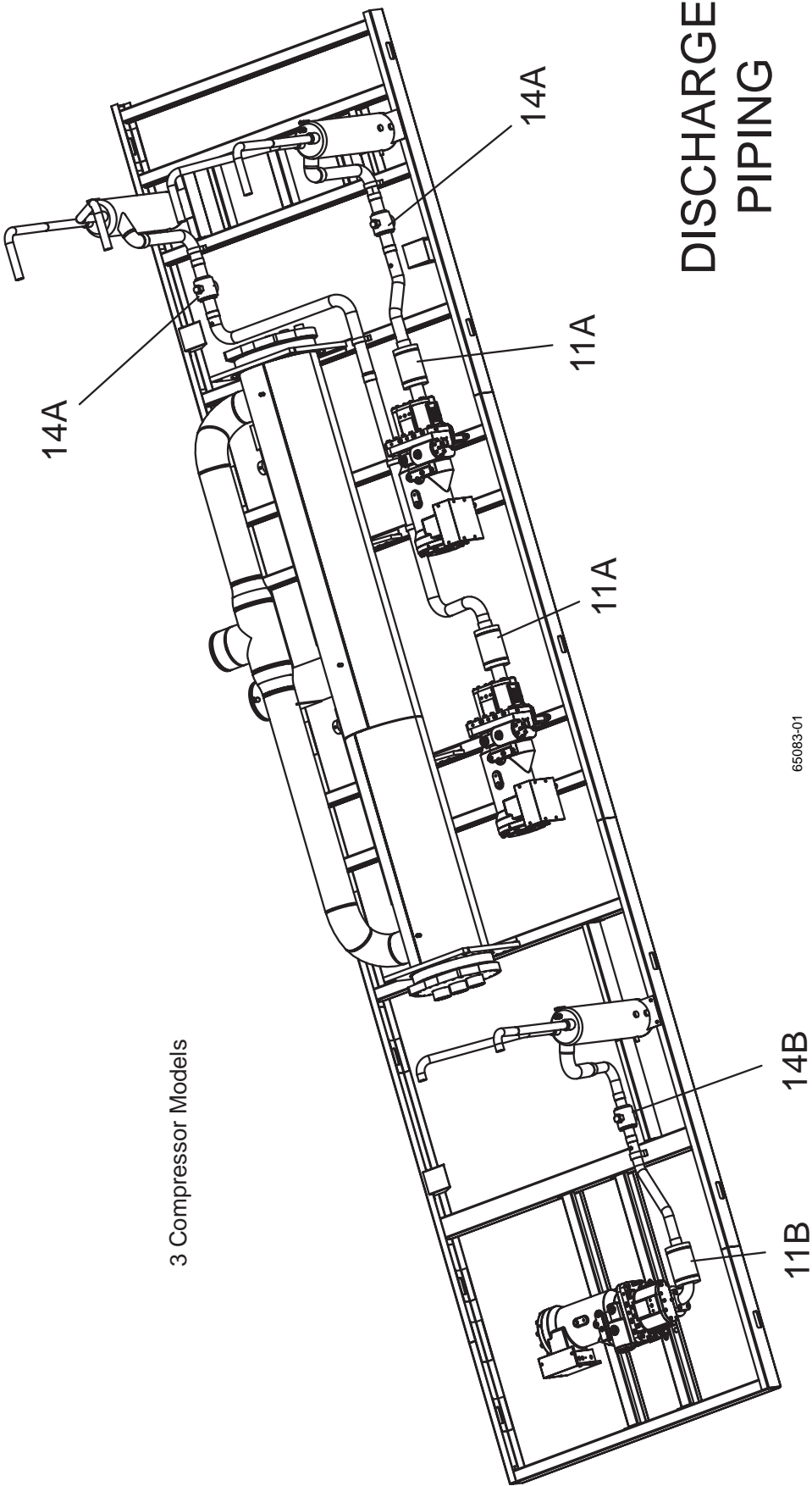
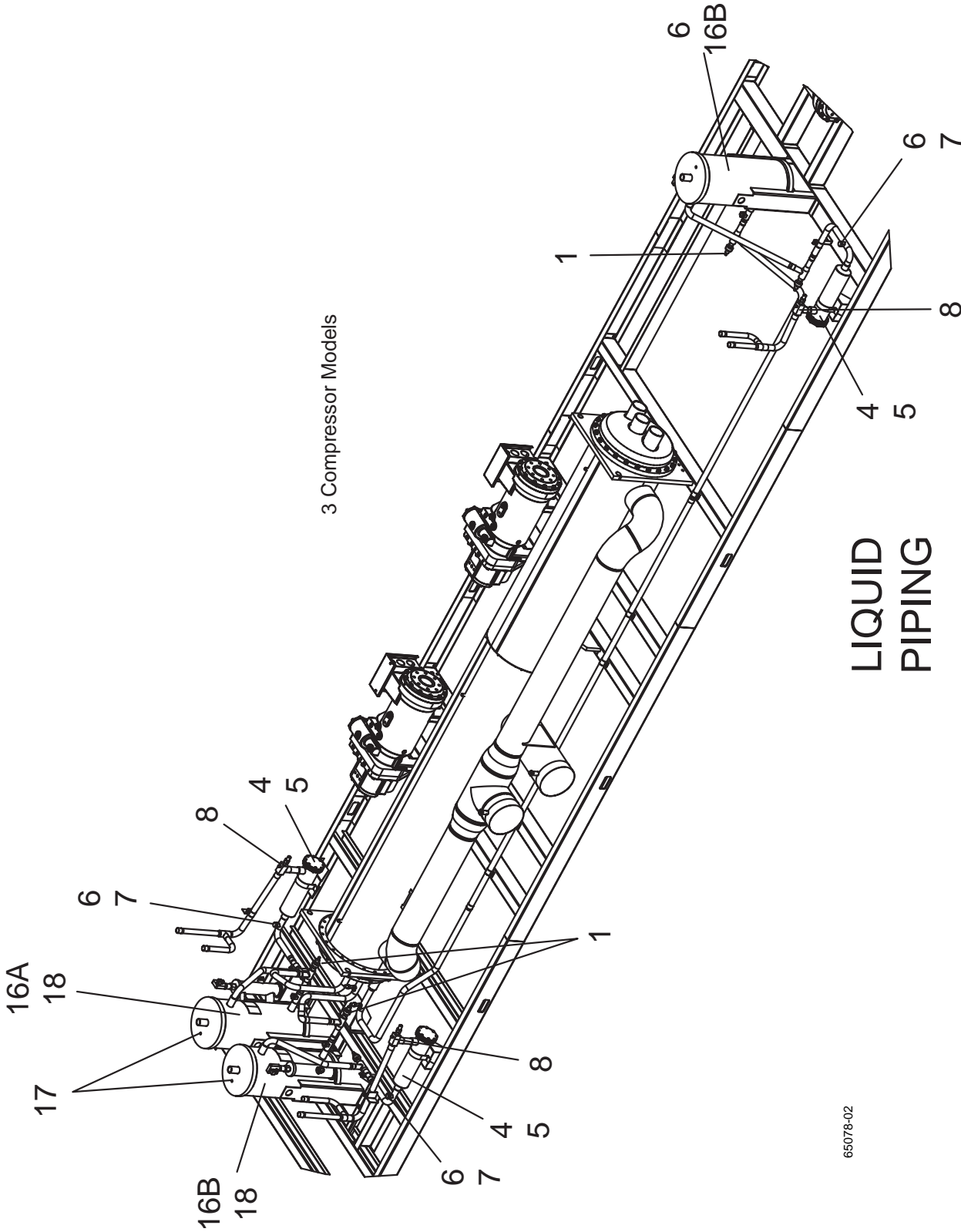


FIG. 4 – DISCHARGE PIPING COMPONENTS - 3 COMPRESSOR MODELS (REF. TABLE 4, PAGES 20 AND 21)

# REFRIGERANT PIPING COMPONENTS (CONT'D)

## 3 COMPRESSOR YCAV CHILLER MODELS

Piping



65078-02

FIG. 4A – LIQUID PIPING COMPONENTS - 3 COMPRESSOR MODELS (REF. TABLE 4, PAGES 20 AND 21)

# REFRIGERANT PIPING COMPONENTS (CONT'D)

## 3 COMPRESSOR YCAV CHILLER MODELS

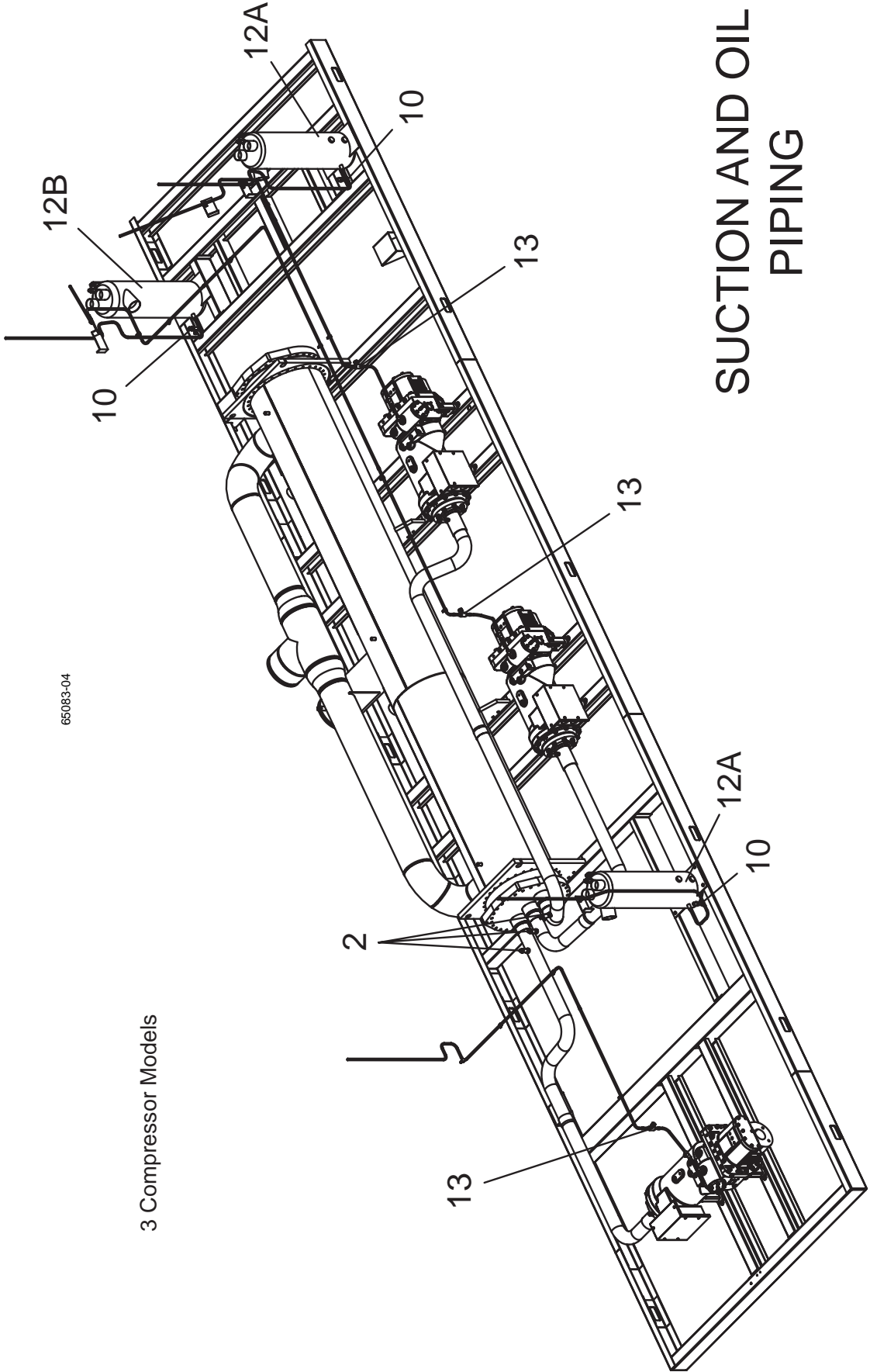


FIG. 4B – SUCTION AND OIL PIPING COMPONENTS - 3 COMPRESSOR MODELS (REF. TABLE 4, PAGES 20 AND 21)

## REFRIGERANT PIPING COMPONENTS (CONT'D)

### 3 COMPRESSOR YCAV CHILLER MODELS

**TABLE 4 – REFRIGERANT PIPING COMPONENTS - 3 COMPRESSOR MODELS**  
PIN #9 = S OR P (SEE FIGS. 4, 4A AND 4B, PAGES 17, 18 AND 19)

ITEM NO.	QTY PER UNIT	DESCRIPTION	YCAV00267 AND YCAV0969	YCAV0287 AND YCAV1039	YCAV0307 AND YCAV1139
1 <sup>S</sup>	6	Valve, Drain or Feed	025-39688-000	025-39688-000	025-39688-000
2	3	Valve, Relief	022-11312-000	022-11312-000	022-11312-000
3	3	Valve, Solenoid	025-40330-000	025-40330-000	025-40330-000
4	3	Dehydrator, Body (Replacable Core)	026-16960-000	026-16960-000	026-16960-000
5 <sup>S</sup>	9	Core, Dehydrator	026-37540-000	026-37540-000	026-37540-000
6	3	Moisture Indicator, Body	026-32399-000	026-32399-000	026-32399-000
7	3	Moisture Indicator, Sight Glass Cap	026-32800-000	026-32800-000	026-32800-000
8	3	Valve, Liquid Stop	022-09779-000	022-09779-000	022-09779-000
9	3	Compressor	See pages 33 and 34		
10	6	Valve, Charging	022-09754-000	022-09754-000	022-09754-000
11A	2	Muffler	375-58655-000	375-58655-000	375-58655-000
11B	1		375-55738-000	375-55738-000	375-53202-000
12A	2	Oil Separator (Left)	075-42901-100		
12B	1	Oil Separator (Right)	075-42901-200		
13	3	Valve, Ball (Oil Line)	022-09172-000	022-09172-000	022-09172-000
14A	2	Ball Valve, Discharge (System 1)	022-11325-000	022-11325-000	022-11325-000
14B	1	Ball Valve, Discharge (System 2)	022-11326-000	022-11326-000	022-11325-000
15	3	Flange	022-11358-000	022-11358-000	022-11358-000
16A	1	Flash Tank	375-55873-000	375-55873-000	375-55873-000
16B	2		375-54434-000	375-54434-000	375-54434-000
17	6	Valve, Relief	022-11398-000	022-11398-000	022-11398-000
18 <sup>S</sup>	3	Sensor, Refrig Level	025-40274-000	025-40274-000	025-40274-000

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

## REFRIGERANT PIPING COMPONENTS (CONT'D)

### 3 COMPRESSOR YCAV CHILLER MODELS

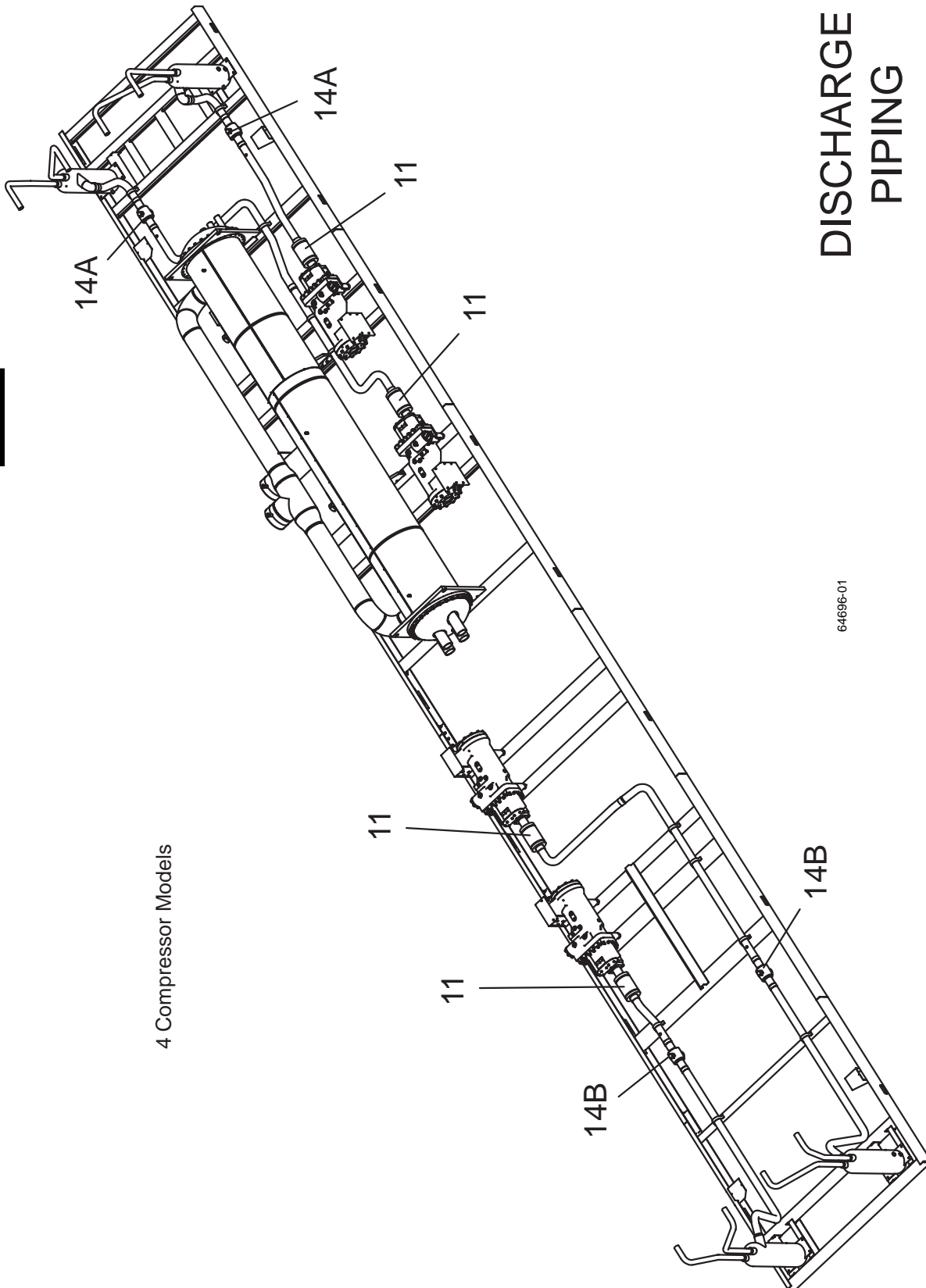
**TABLE 4 (CONT'D) – REFRIGERANT PIPING COMPONENTS - 3 COMPRESSOR MODELS**  
PIN #9 = S OR P (SEE FIGS. 4, 4A AND 4B, PAGES 17, 18 AND 19)

ITEM NO.	QTY PER UNIT	DESCRIPTION	YCAV0327 AND YCAV1169	YCAV0357 AND YCAV1309	YCAV0397 AND YCAV1429
<b>1<sup>S</sup></b>	6	Valve, Drain or Feed	025-39688-000	025-39688-000	025-39688-000
<b>2</b>	3	Valve, Relief	022-11312-000	022-11312-000	022-11312-000
<b>3</b>	3	Valve, Solenoid	025-40330-000	025-40330-000	025-40330-000
<b>4</b>	3	Dehydrator, Body (Replacable Core)	026-16960-000	026-16960-000	026-16960-000
<b>5<sup>S</sup></b>	9	Core, Dehydrator	026-37540-000	026-37540-000	026-37540-000
<b>6</b>	3	Moisture Indicator, Body	026-32399-000	026-32399-000	026-32399-000
<b>7</b>	3	Moisture Indicator, Sight Glass Cap	026-32800-000	026-32800-000	026-32800-000
<b>8</b>	3	Valve, Liquid Stop	022-09779-000	022-09779-000	022-09779-000
<b>9</b>	3	Compressor	See pages 33 and 34		
<b>10</b>	6	Valve, Charging	022-09754-000	022-09754-000	022-09754-000
<b>11A</b>	2	Muffler	375-58655-000	375-58655-000	375-58655-000
<b>11B</b>	1		375-53202-000	375-53202-000	375-53202-000
<b>12A</b>	2	Oil Separator (Left)	075-42901-100		
<b>12B</b>	1	Oil Separator (Right)	075-42901-200		
<b>13</b>	3	Valve, Ball (Oil Line)	022-09172-000	022-09172-000	022-09172-000
<b>14A</b>	2	Ball Valve, Discharge (System 1)	022-11325-000	022-11325-000	022-11325-000
<b>14B</b>	1	Ball Valve, Discharge (System 2)	022-11325-000	022-11325-000	022-11325-000
<b>15</b>	3	Flange	022-11358-000	022-11358-000	022-11358-000
<b>16A</b>	1	Flash Tank	375-55873-000	375-55873-000	375-55873-000
<b>16B</b>	2		375-54434-000	375-54434-000	375-54434-000
<b>17</b>	6	Valve, Relief	022-11398-000	022-11398-000	022-11398-000
<b>18<sup>S</sup></b>	3	Sensor, Refrig Level	025-40274-000	025-40274-000	025-40274-000

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

# REFRIGERANT PIPING COMPONENTS

## 4 COMPRESSOR YCAV CHILLER MODELS



4 Compressor Models

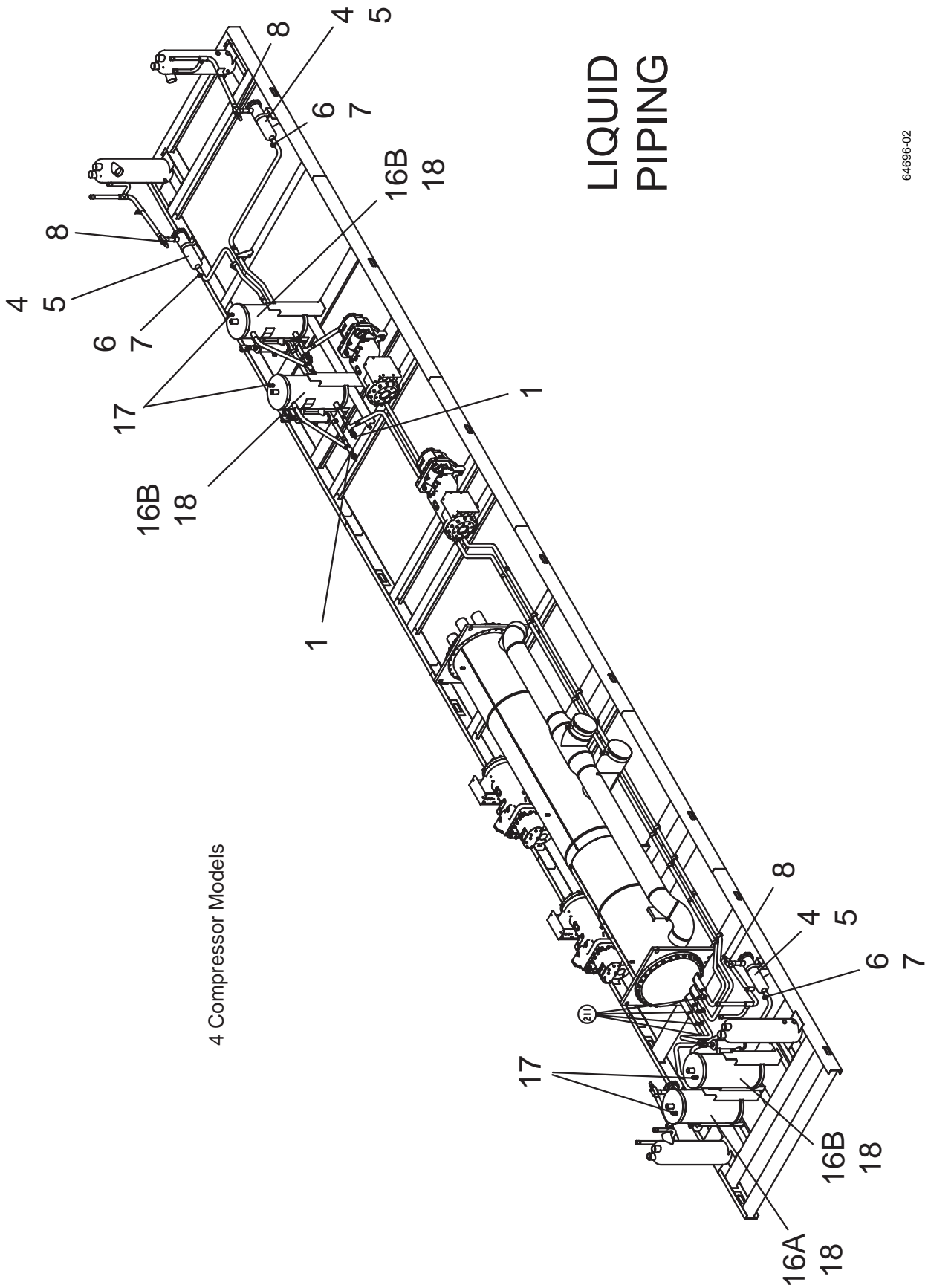
64696-01

**FIG. 4D – DISCHARGE PIPING COMPONENTS - 4 COMPRESSOR MODELS**  
(REF. TABLE 4A, PAGES 26 AND 27)

Piping

# REFRIGERANT PIPING COMPONENTS (CONT'D)

## 4 COMPRESSOR YCAV CHILLER MODELS



LIQUID  
PIPING

64696-02

4 Compressor Models

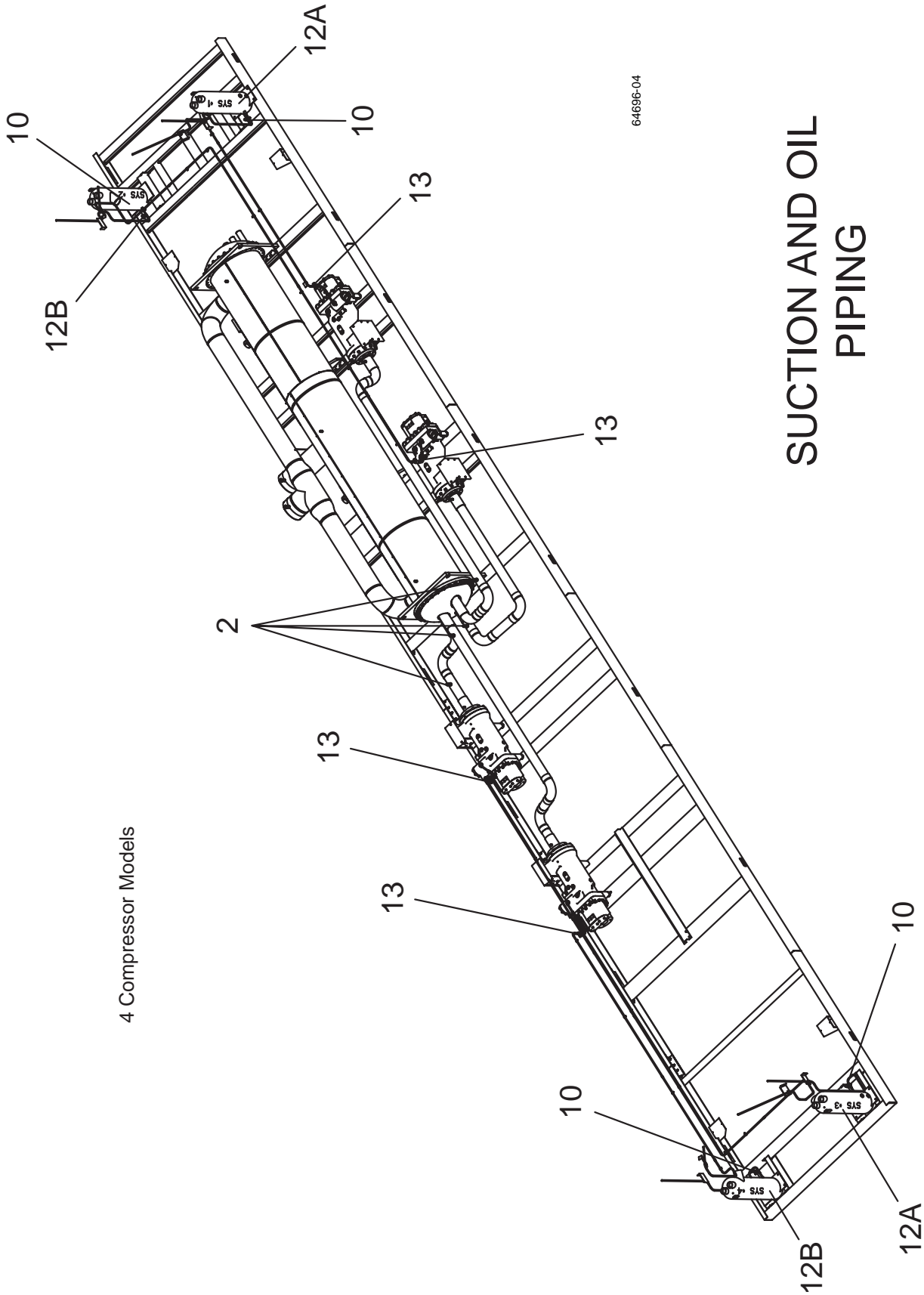
Piping

**FIG. 4E** – LIQUID PIPING COMPONENTS - 4 COMPRESSOR MODELS  
(REF. TABLE 4A, PAGES 26 AND 27)

# REFRIGERANT PIPING COMPONENTS (CONT'D)

## 4 COMPRESSOR YCAV CHILLER MODELS

Piping

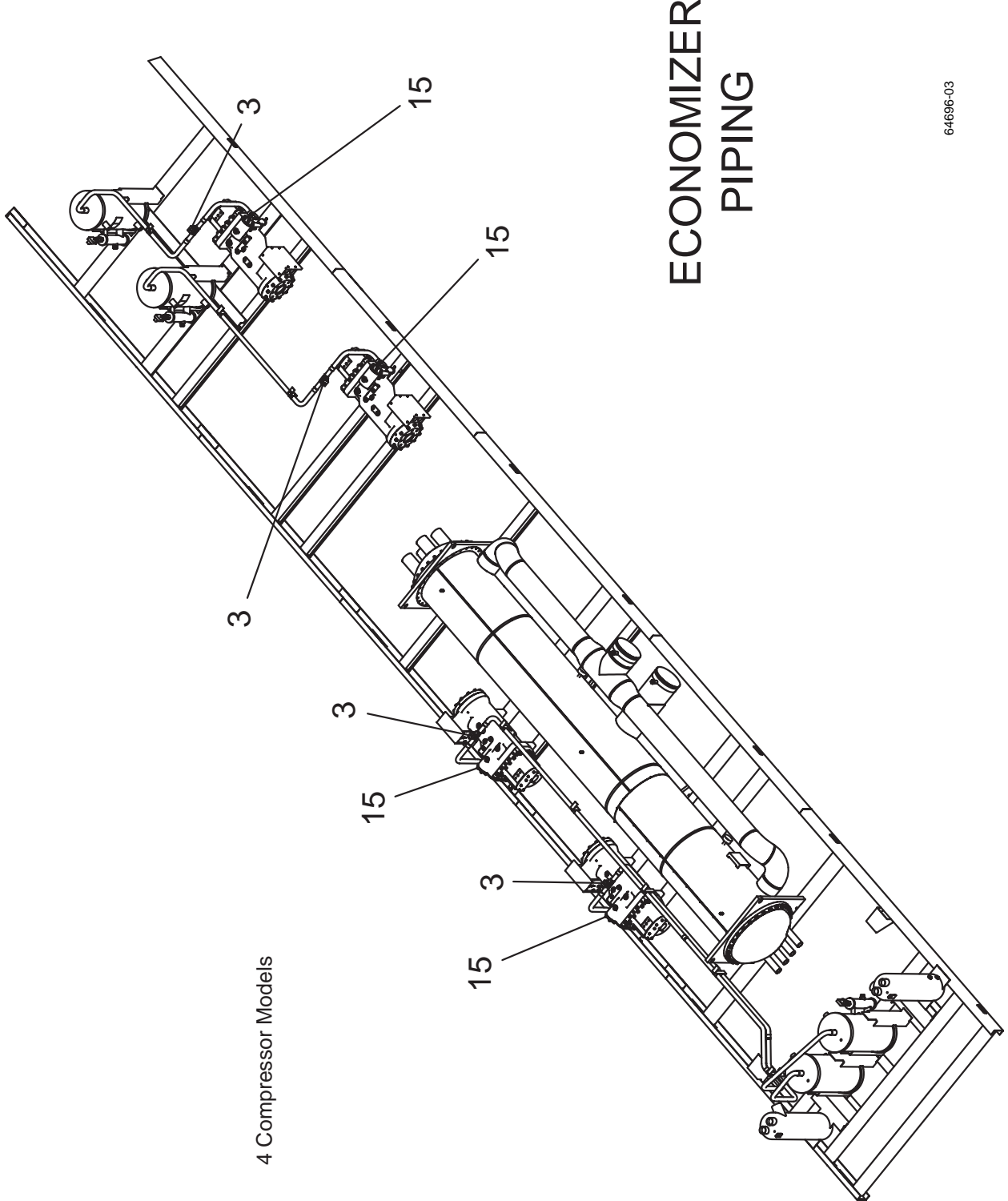


SUCTION AND OIL PIPING

**FIG. 4F** – SUCTION AND OIL PIPING COMPONENTS - 4 COMPRESSOR MODELS  
(REF. TABLE 4A, PAGES 26 AND 27)

# REFRIGERANT PIPING COMPONENTS (CONT'D)

## 4 COMPRESSOR YCAV CHILLER MODELS



64696-03

Piping

**FIG. 4G** – ECONOMIZER PIPING COMPONENTS - 4 COMPRESSOR MODELS  
(REF. TABLE 4A, PAGES 26 AND 27)

## REFRIGERANT PIPING COMPONENTS (CONT'D)

### 4 COMPRESSOR YCAV CHILLER MODELS

**TABLE 4A – REFRIGERANT PIPING COMPONENTS - 4 COMPRESSOR MODELS**  
 PIN #9 = S OR P (SEE FIGS. 4D, 4E, 4F AND 4G, PAGES 22, 23, 24 AND 25)

ITEM NO.	QTY PER UNIT	DESCRIPTION	YCAV00417 AND YCAV1549	YCAV0457 AND YCAV1649	YCAV0477 AND YCAV1739
<b>1<sup>S</sup></b>	8	Valve, Drain or Feed	025-39688-000	025-39688-000	025-39688-000
<b>2</b>	4	Valve, Relief	022-11312-000	022-11312-000	022-11312-000
<b>3</b>	4	Valve, Solenoid	025-40330-000	025-40330-000	025-40330-000
<b>4</b>	4	Dehydrator, Body (Replacable Core)	026-16960-000	026-16960-000	026-16960-000
<b>5<sup>S</sup></b>	12	Core, Dehydrator	026-37540-000	026-37540-000	026-37540-000
<b>6</b>	4	Moisture Indicator, Body	026-32399-000	026-32399-000	026-32399-000
<b>7</b>	4	Moisture Indicator, Sight Glass Cap	026-32800-000	026-32800-000	026-32800-000
<b>8</b>	4	Valve, Liquid Stop	022-09779-000	022-09779-000	022-09779-000
<b>9</b>	4	Compressor	See pages 33 and 34		
<b>10</b>	8	Valve, Charging	022-09754-000	022-09754-000	022-09754-000
<b>11</b>	4	Muffler	375-58655-000	375-58655-000	375-58655-000
<b>12A</b>	2	Oil Separator (Left)	075-42901-100		
<b>12B</b>	2	Oil Separator (Right)	075-42901-200		
<b>13</b>	4	Valve, Ball (Oil Line)	022-09172-000	022-09172-000	022-09172-000
<b>14A</b>	2	Ball Valve, Discharge (System 1)	022-11325-000	022-11325-000	022-11325-000
<b>14B</b>	2	Ball Valve, Discharge (System 2)	022-11325-000	022-11325-000	022-11325-000
<b>15</b>	4	Flange	022-11358-000	022-11358-000	022-11358-000
<b>16A</b>	1	Flash Tank	375-55873-000	375-55873-000	375-55873-000
<b>16B</b>	3		375-54434-000	375-54434-000	375-54434-000
<b>17</b>	8	Valve, Relief	022-11398-000	022-11398-000	022-11398-000
<b>18<sup>S</sup></b>	4	Sensor, Refrig Level	025-40274-000	025-40274-000	025-40274-000

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

## REFRIGERANT PIPING COMPONENTS (CONT'D)

### 4 COMPRESSOR YCAV CHILLER MODELS

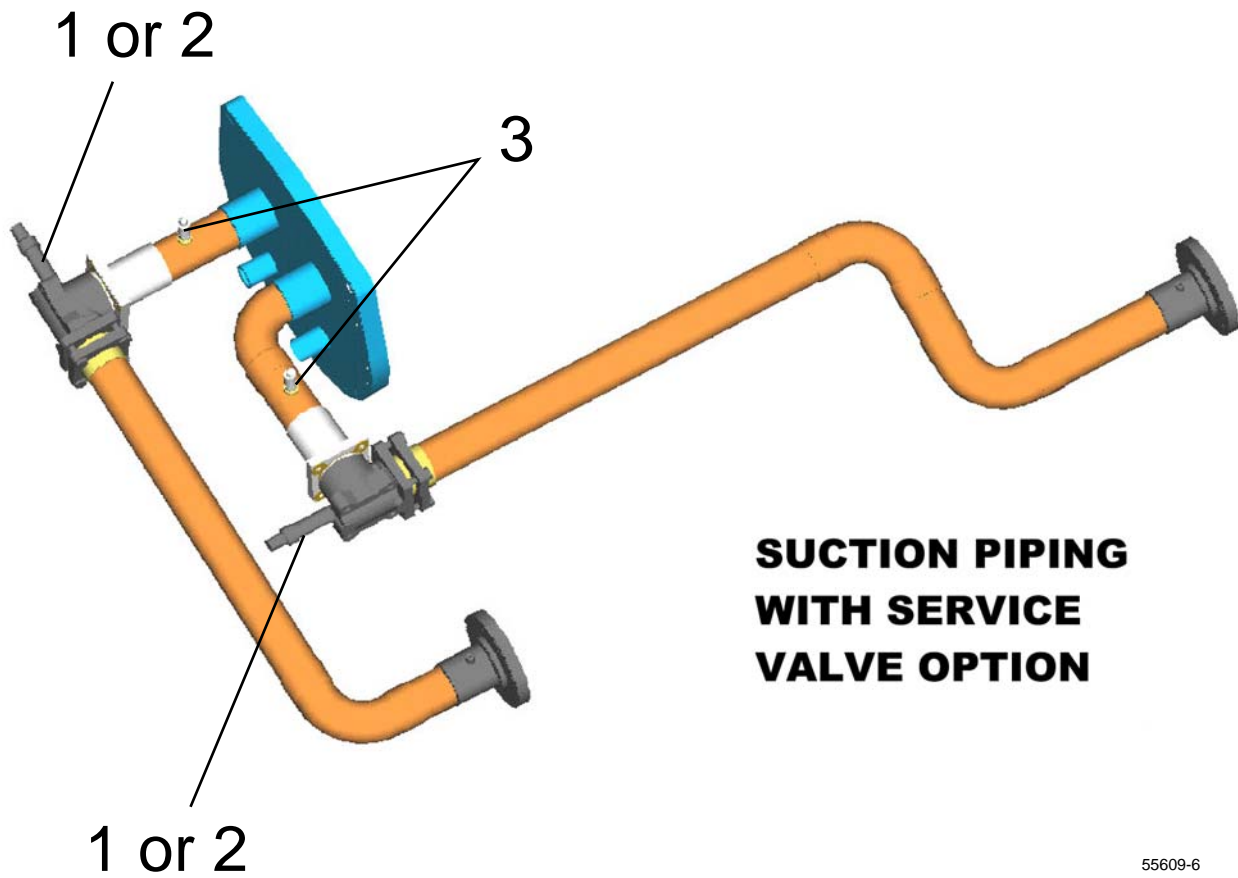
**TABLE 4A (CONT'D) – REFRIGERANT PIPING COMPONENTS - 4 COMPRESSOR MODELS**  
PIN #9 = S OR P (SEE FIGS. 4D, 4E, 4F AND 4G, PAGES 22, 23, 24 AND 25)

ITEM NO.	QTY PER UNIT	DESCRIPTION	YCAV00507 AND YCAV1829	YCAV0527 AND YCAV1909
<b>1<sup>S</sup></b>	8	Valve, Drain or Feed	025-39688-000	025-39688-000
<b>2</b>	4	Valve, Relief	022-11312-000	022-11312-000
<b>3</b>	4	Valve, Solenoid	025-40330-000	025-40330-000
<b>4</b>	4	Dehydrator, Body (Replacable Core)	026-16960-000	026-16960-000
<b>5<sup>S</sup></b>	12	Core, Dehydrator	026-37540-000	026-37540-000
<b>6</b>	4	Moisture Indicator, Body	026-32399-000	026-32399-000
<b>7</b>	4	Moisture Indicator, Sight Glass Cap	026-32800-000	026-32800-000
<b>8</b>	4	Valve, Liquid Stop	022-09779-000	022-09779-000
<b>9</b>	4	Compressor	See pages 33 and 34	
<b>10</b>	8	Valve, Charging	022-09754-000	022-09754-000
<b>11</b>	4	Muffler	375-58655-000	375-58655-000
<b>12A</b>	2	Oil Separator (Left)	075-42901-100	
<b>12B</b>	2	Oil Separator (Right)	075-42901-200	
<b>13</b>	4	Valve, Ball (Oil Line)	022-09172-000	022-09172-000
<b>14A</b>	2	Ball Valve, Discharge (System 1)	022-11325-000	022-11325-000
<b>14B</b>	2	Ball Valve, Discharge (System 2)	022-11325-000	022-11325-000
<b>15</b>	4	Flange	022-11358-000	022-11358-000
<b>16A</b>	1	Flash Tank	375-55873-000	375-55873-000
<b>16B</b>	3		375-54434-000	375-54434-000
<b>17</b>	8	Valve, Relief	022-11398-000	022-11398-000
<b>18<sup>S</sup></b>	4	Sensor, Refrig Level	025-40274-000	025-40274-000

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

# REFRIGERANT PIPING COMPONENTS (CONT'D)

## CHILLER MODEL YCAV



55609-6

**FIG. 4H** – SUCTION PIPING WITH SERVICE VALVE OPTION COMPONENTS  
(REF. TABLE 4B, PAGE 29)

## REFRIGERANT PIPING COMPONENTS (CONT'D)

### CHILLER MODEL YCAV

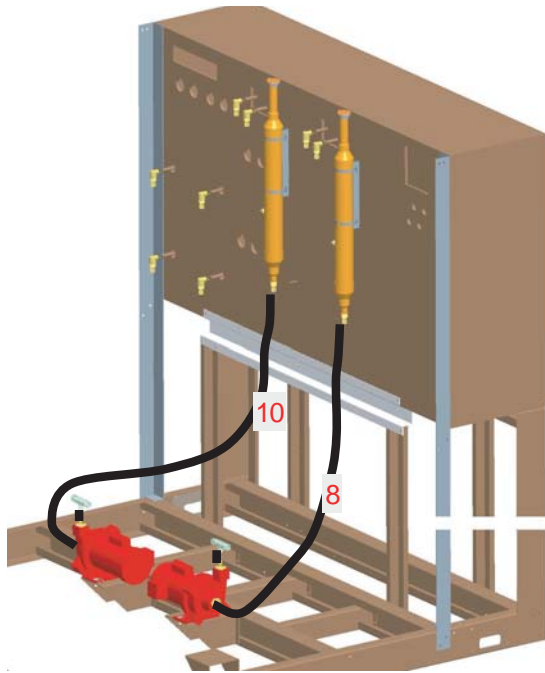
**TABLE 4B – SUCTION PIPING WITH SERVICE VALVE OPTION COMPONENTS (SEE FIG. 4H, PAGE 28)**

ITEM NO.	DESCRIPTION	PART NUMBER
1	Valve, Stop (3 5/8")	022-02845-001
	Gasket	028-13974-000
2	Valve, Stop (4 1/8")	022-11340-000
	Gasket	028-15304-000
3	Valve, Relief	022-11312-000

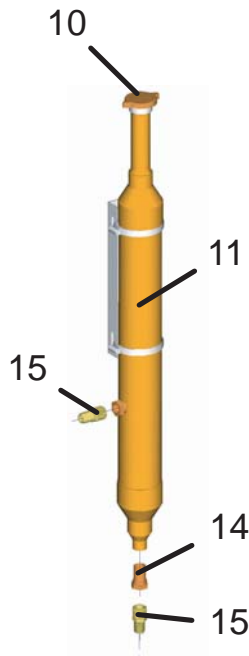
# GLYCOL LOOP COMPONENTS

## CHILLER MODEL YCAV

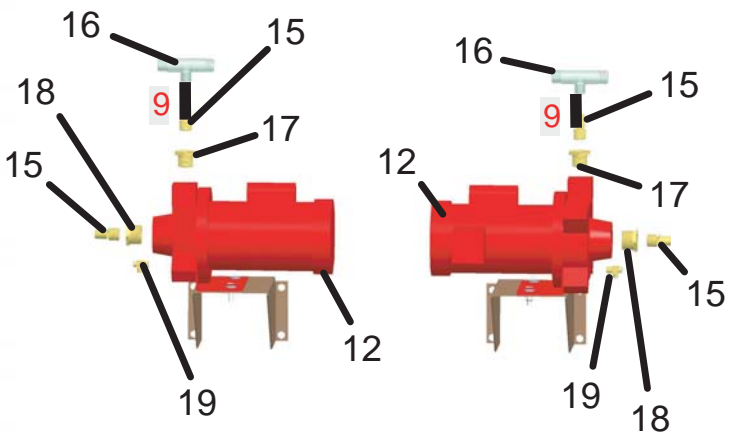
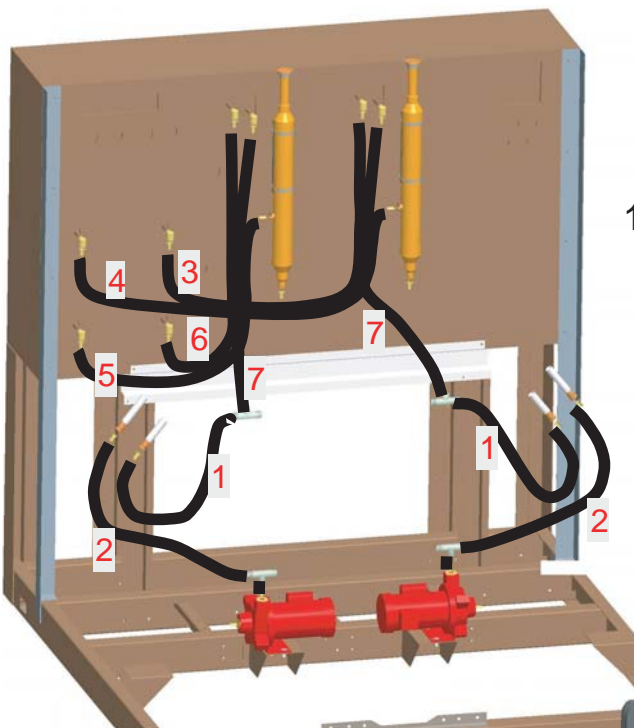
Piping



61393-00a



HOSE, BLACK RUBBER - 3/4 I.D. (028-11958-000)		
SECTION	3 COMP.	4 COMP.
	LENGTH	LENGTH
<b>1</b>	55"	55"
<b>2</b>	55"	45"
<b>3</b>	115"	60"
<b>4</b>	55"	70"
<b>5</b>	55"	55"
<b>6</b>	40"	55"
<b>7</b>	55"	55"
<b>8</b>	45"	70"
<b>9</b>	3"	3"
<b>10</b>	N/A	75"



61393-00b

**FIG. 4J** – GLYCOL LOOP COMPONENTS (REF. TABLE 4C, PAGE 31)

## GLYCOL LOOP COMPONENTS (CONT'D)

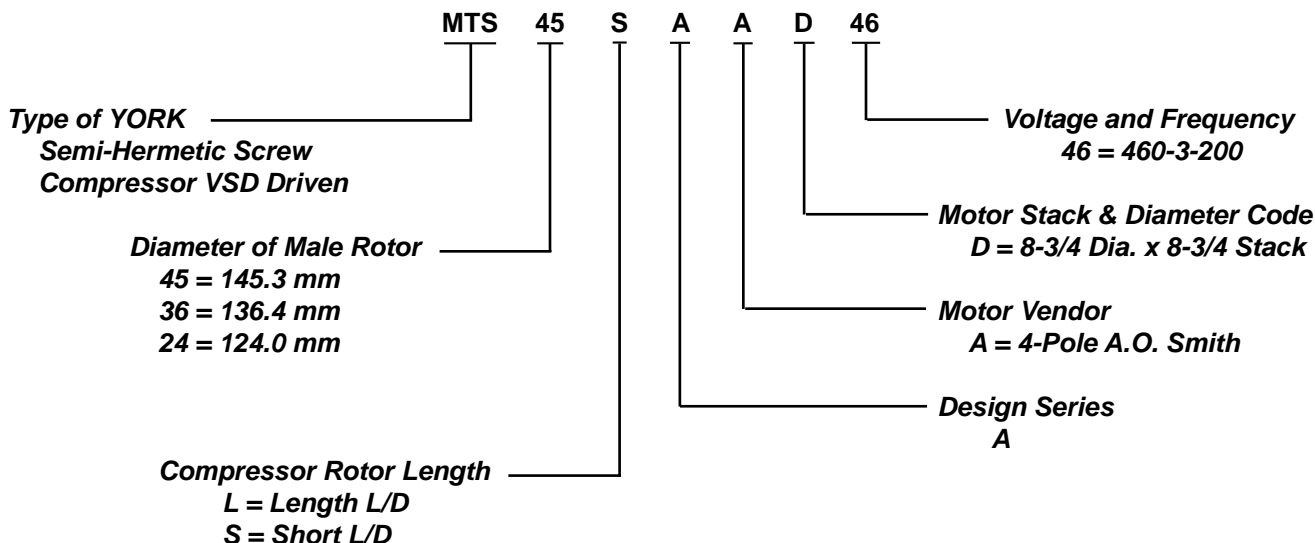
### CHILLER MODEL YCAV

**TABLE 4C (CONT'D) – GLYCOL LOOP COMPONENTS**  
(SEE FIG. 4J, PAGE 30)

ITEM NO.	QTY PER SYSTEM	DESCRIPTION	PART NUMBER
<b>10<sup>S</sup></b>	1	CAP, RADIATOR	023-21927-000
<b>11</b>	1	TUBE, GLYCOL	075-55649-000
<b>12</b>	1	PUMP, SINGLE STAGE	026-41611-000
<b>13<sup>S</sup></b>	5 gal	COOLANT, PROPYLENE GLYCOL	013-03345-000
<b>14</b>	1	REDUCER	023-21941-000
<b>15</b>	4	FITTING, HOSE BARB	023-21929-000
<b>16</b>	2	TEE	023-22526-000
<b>17</b>	1	BUSHING	023-21934-000
<b>18</b>	1	BUSHING	023-21935-000
<b>19</b>	1	VALVE, DRAIN	023-21874-000

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

# COMPRESSOR MODEL NOMENCLATURE



Compressor

COMPRESSOR WEIGHTS		
MM SIZE	WEIGHT (LBS.)*	WEIGHT (Kg.)
145	1310	594
136	1250	567
124	1175	533

\*Note: Less Service Valves.

ITEM	REF.	DESCRIPTION	5 GALLON
OIL <sup>S</sup>	R-134A	Oil, Type 'L' (Synthetic)	011-00591-000

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

COMPRESSOR CHANGE OUT PARTS		
MM SIZE	DESCRIPTION	PART NUMBER
All	Gasket, Suction Flange	028-15075-159
All	Gasket, Discharge Flange	028-15296-000
All	Seal, HPCO O-Ring	028-13540-000

# COMPRESSOR

**TABLE 6 – COMPRESSOR PART NUMBERS - PIN # 9 = S OR P**

MODEL	SYSTEM #1 COMPRESSOR				SYSTEM #2 COMPRESSOR			
	PART #	MODEL #	MM	QTY	PART #	MODEL #	MM	QTY
YCAV0287 YCAV1039	364-50821-000	MTS36SA	136	1	364-50821-000	MTS36SA	136	1
YCAV0307 YCAV1139	364-50821-000	MTS36SA	136	1	364-50821-000	MTS36SA	136	1
YCAV0357 YCAV1309	364-50821-000	MTS36SA	136	1	364-50821-000	MTS36SA	136	1
YCAV0397 YCAV1429	364-50822-000	MTS45SA	145	1	364-50822-000	MTS45SA	145	1
YCAV0417 YCAV1549	364-50821-000	MTS36SA	136	1	364-50821-000	MTS36SA	136	1
YCAV0457 YCAV1649	364-50822-000	MTS45SA	145	1	364-50822-000	MTS45SA	145	1
YCAV0477 YCAV1739	364-50822-000	MTS45SA	145	1	364-50822-000	MTS45SA	145	1
YCAV0507 YCAV1829	364-50822-000	MTS45SA	145	1	364-50822-000	MTS45SA	145	1
YCAV0527 YCAV1909	364-50822-000	MTS45SA	145	1	364-50822-000	MTS45SA	145	1

MODEL	SYSTEM #3 COMPRESSOR				SYSTEM #4 COMPRESSOR			
	PART #	MODEL #	MM	QTY	PART #	MODEL #	MM	QTY
YCAV0287 YCAV1039	364-50820-000	MTS24SA	124	1	N/A			
YCAV0307 YCAV1139	364-50821-000	MTS36SA	136	1	N/A			
YCAV0357 YCAV1309	364-50822-000	MTS45SA	145	1	N/A			
YCAV0397 YCAV1429	364-50822-000	MTS45SA	145	1	N/A			
YCAV0417 YCAV1549	364-50821-000	MTS36SA	136	1	364-50821-000	MTS36SA	136	1
YCAV0457 YCAV1649	364-50821-000	MTS36SA	136	1	364-50821-000	MTS36SA	136	1
YCAV0477 YCAV1739	364-50821-000	MTS36SA	136	1	364-50821-000	MTS36SA	136	1
YCAV0507 YCAV1829	364-50821-000	MTS36SA	136	1	364-50822-000	MTS45SA	145	1
YCAV0527 YCAV1909	364-50822-000	MTS45SA	145	1	364-50822-000	MTS45SA	145	1

**Compressor**

# COMPRESSOR (CONT'D)

**TABLE 6A – COMPRESSOR PART NUMBERS - PIN # 9 = E OR V**

MODEL	SYSTEM #1 COMPRESSOR				SYSTEM #2 COMPRESSOR			
	PART #	MODEL #	MM	QTY	PART #	MODEL #	MM	QTY
YCAV0267 YCAV0969	364-50821-000	MTS36SA	136	1	364-50821-000	MTS36SA	136	1
YCAV0287 YCAV1039	364-50821-000	MTS36SA	136	1	364-50821-000	MTS36SA	136	1
YCAV0327 YCAV1169	364-50821-000	MTS36SA	136	1	364-50821-000	MTS36SA	136	1
YCAV0357 YCAV1309	364-50822-000	MTS45SA	145	1	364-50822-000	MTS45SA	145	1
YCAV0397 YCAV1429	364-50821-000	MTS36SA	136	1	364-50821-000	MTS36SA	136	1
YCAV0417 YCAV1549	364-50821-000	MTS36SA	136	1	364-50821-000	MTS36SA	136	1
YCAV0477 YCAV1739	364-50822-000	MTS45SA	145	1	364-50822-000	MTS45SA	145	1

Compressor

MODEL	SYSTEM #3 COMPRESSOR				SYSTEM #4 COMPRESSOR			
	PART #	MODEL #	MM	QTY	PART #	MODEL #	MM	QTY
YCAV0267 YCAV0969	364-50820-000	MTS24SA	124	1	N/A			
YCAV0287 YCAV1039	364-50821-000	MTS36SA	136	1	N/A			
YCAV0327 YCAV1169	364-50821-000	MTS36SA	136	1	N/A			
YCAV0357 YCAV1309	364-50821-000	MTS36SA	136	1	N/A			
YCAV0397 YCAV1429	364-50821-000	MTS36SA	136	1	364-50821-000	MTS36SA	136	1
YCAV0417 YCAV1549	364-50821-000	MTS36SA	136	1	364-50821-000	MTS36SA	136	1
YCAV0477 YCAV1739	364-50821-000	MTS36SA	136	1	364-50821-000	MTS36SA	136	1

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## CONTROL AND VSD 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.

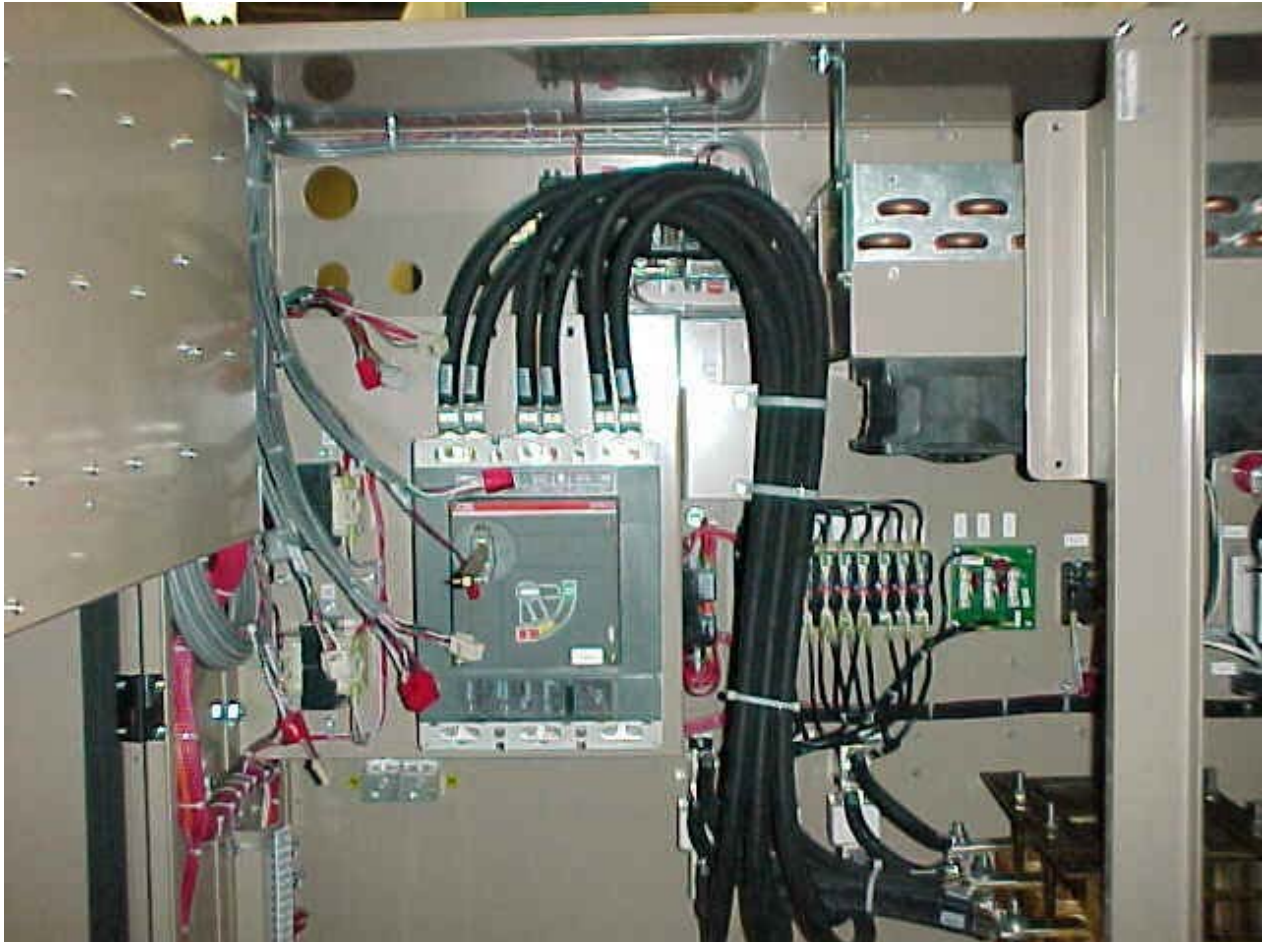
PIN 16 & 17 LETTER CODE IDENTIFIERS		OPTION PANEL AND POWER PANEL CONFIGURATIONS
<b>S</b>	<b>X</b>	Single Point Supply Terminal Block
<b>B</b>	<b>X</b>	Single Point Supply Circuit Breaker
<b>S</b>	<b>S</b>	Single Point Supply Terminal Block w/ Separate System Non-Fused Disconnect Switch
<b>C</b>	<b>S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



Variable Speed Drive

**FIG. 7 – CONTROL, OPTIONS AND POWER PANELS LAYOUT**

## CONTROL AND VSD PANEL CONFIGURATIONS (CONT'D)

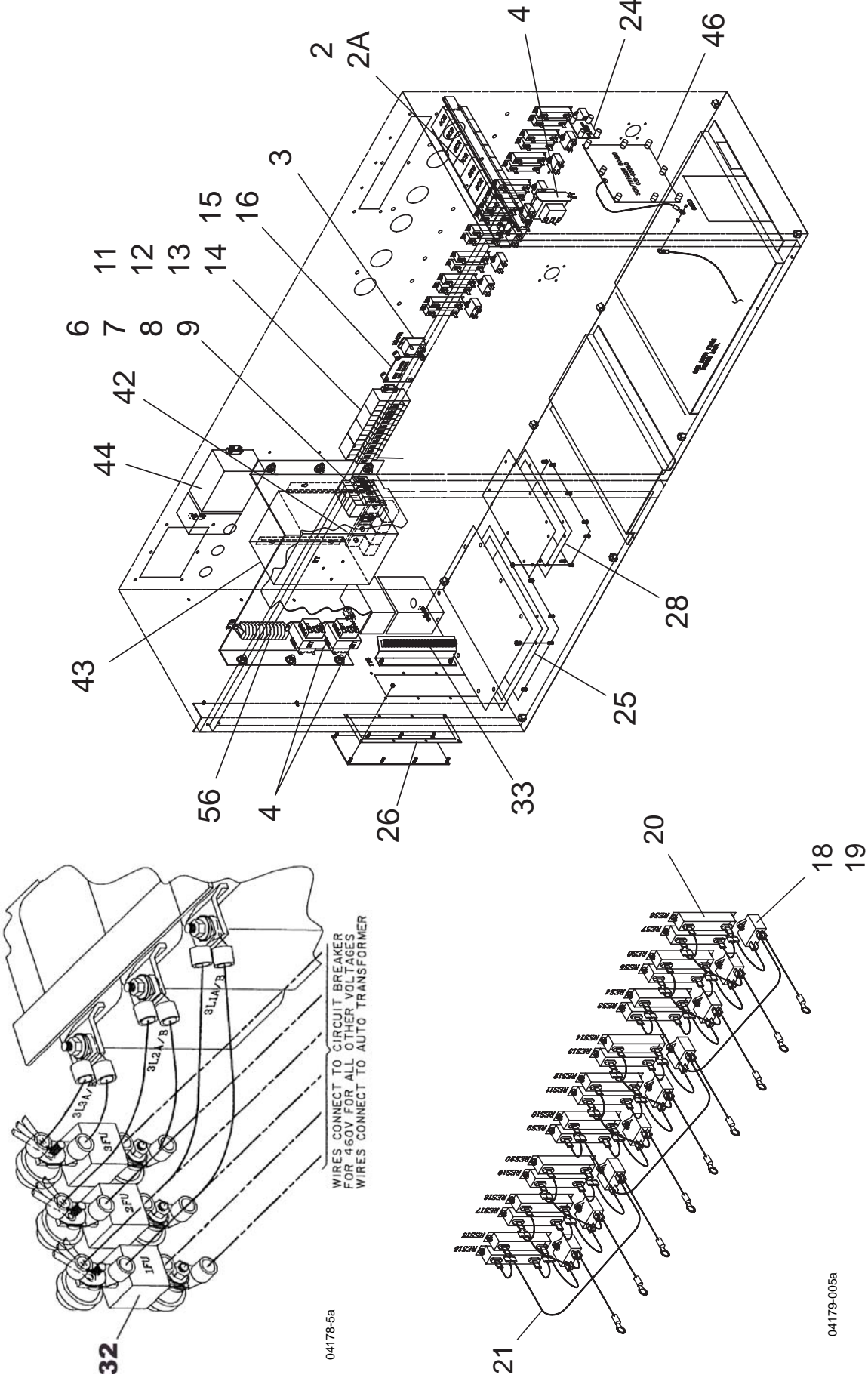


**\*Note:** *On units with Single Point Terminal Blocks, the terminal blocks are located in the same space as the Single Point Circuit Breaker shown in Fig. 7A.*

Variable Speed Drive

**FIG. 7A** – EXAMPLES OF POWER WIRING CONFIGURATIONS (4-COMPRESSOR UNITS)

# VARIABLE SPEED DRIVE PANEL COMPONENTS



**FIG. 8 – VARIABLE SPEED DRIVE COMPONENTS - 3 COMP MODELS SHOWN (REF. TABLE 8, PAGES 43, 44 AND 45)**

# VARIABLE SPEED DRIVE PANEL COMPONENTS (CONT'D)

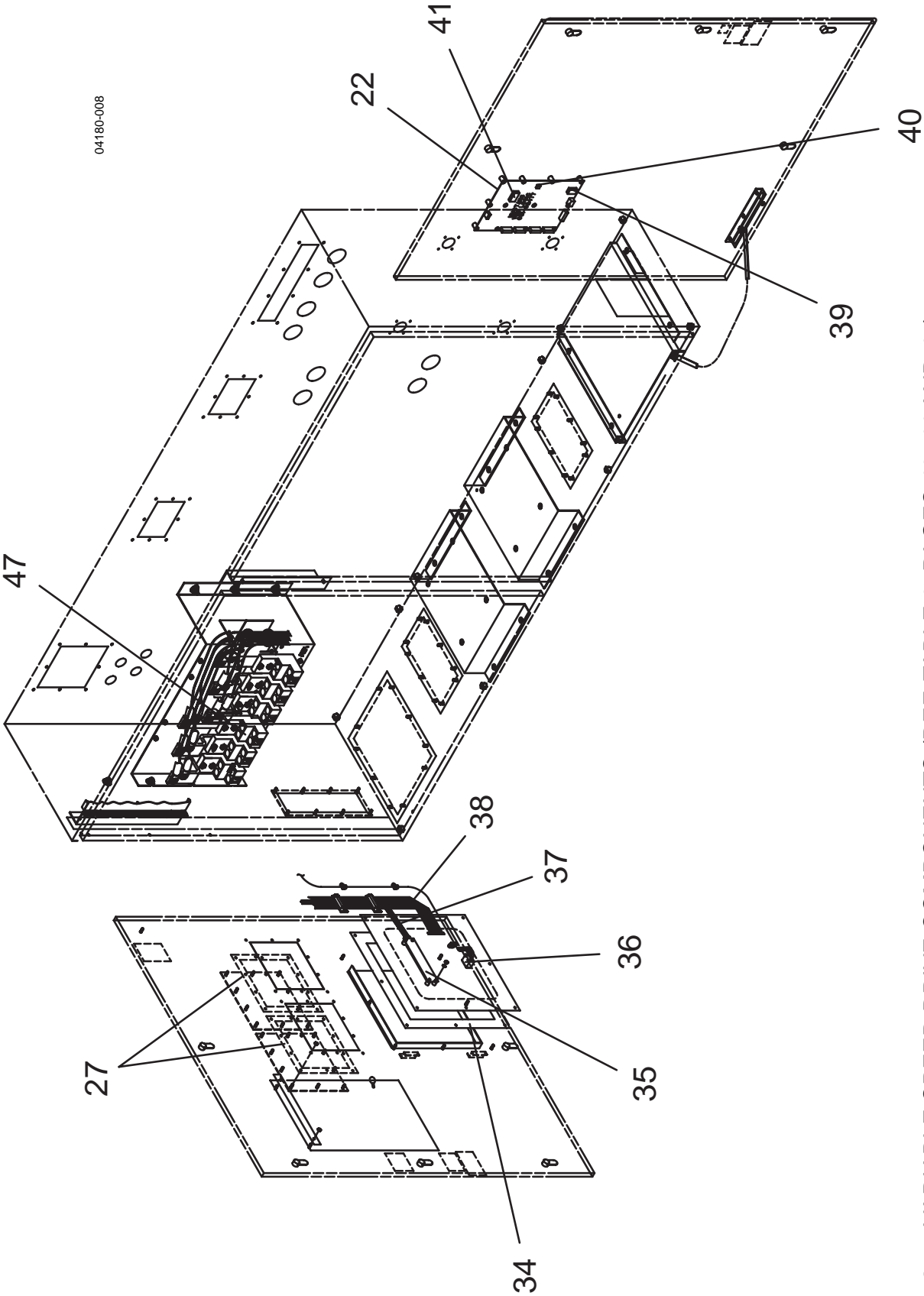
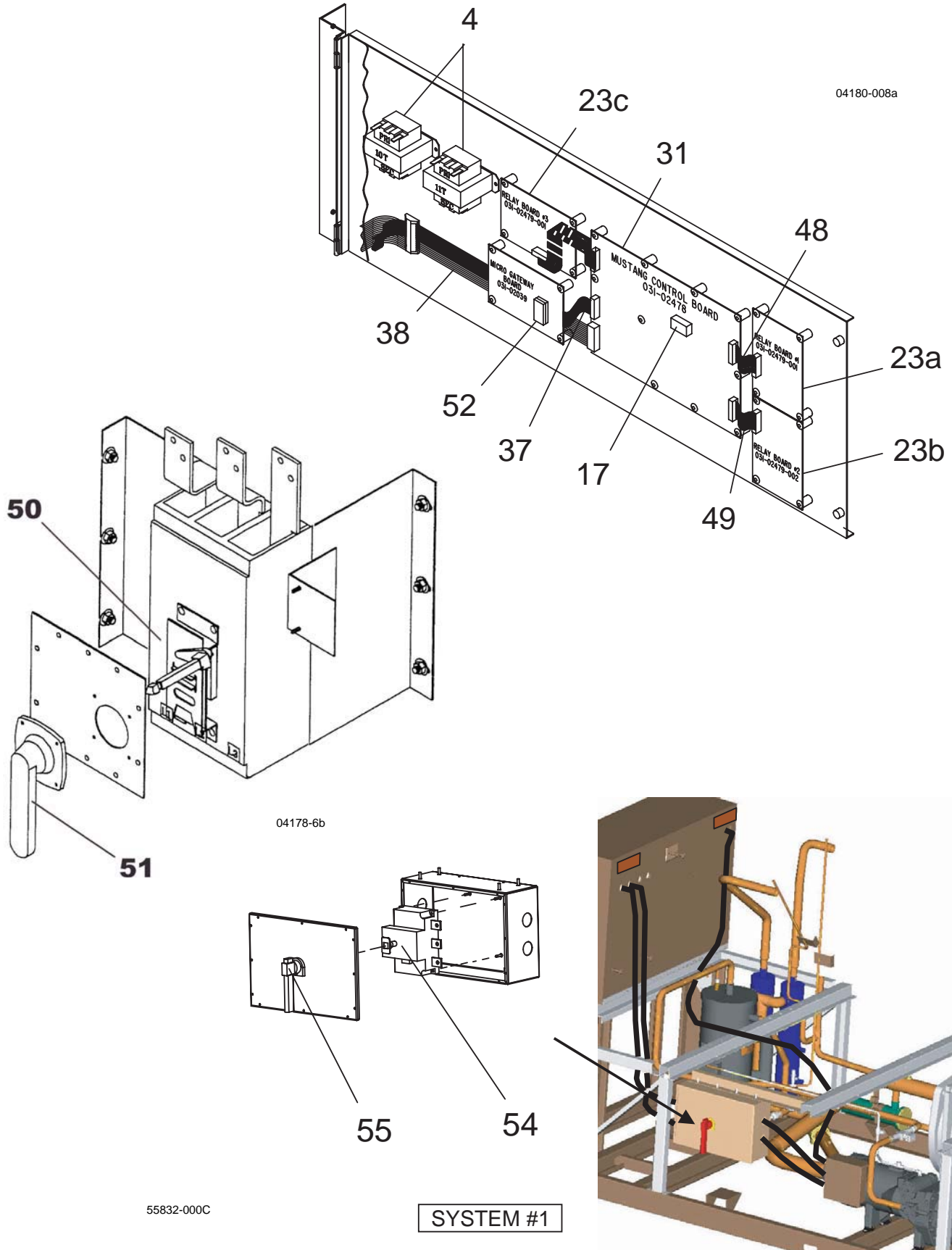


FIG. 8a – VARIABLE SPEED DRIVE COMPONENTS (REF. TABLE 8, PAGES 43, 44 AND 45)

Variable Speed Drive

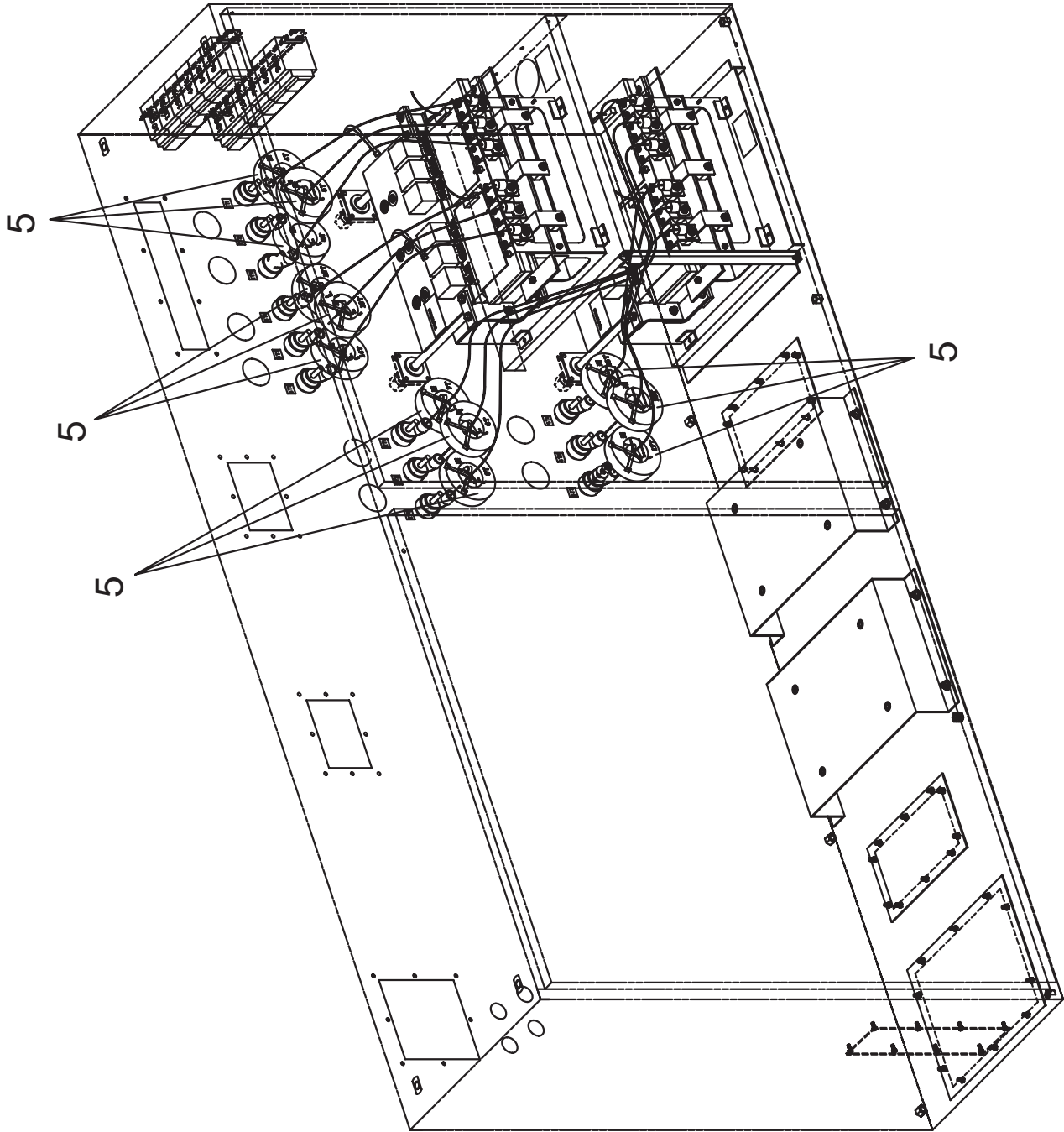
# VARIABLE SPEED DRIVE PANEL COMPONENTS (CONT'D)



Variable Speed Drive

**FIG. 8b** – VARIABLE SPEED DRIVE COMPONENTS (REF. TABLE 8, PAGES 43, 44 AND 45)

# VARIABLE SPEED DRIVE PANEL COMPONENTS (CONT'D)



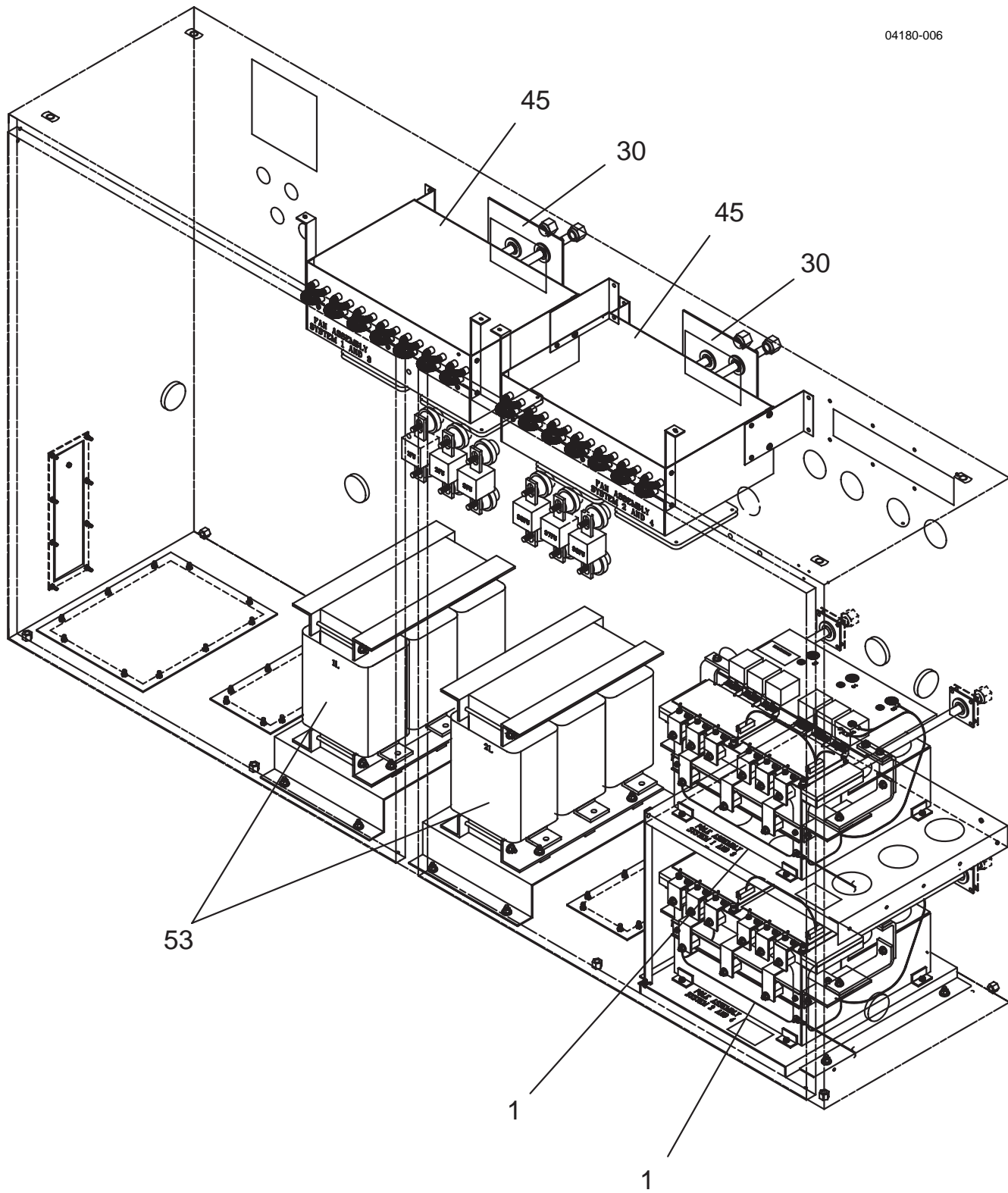
04180-007

41 **FIG. 8c** – VARIABLE SPEED DRIVE COMPONENTS - 4 COMP MODELS SHOWN (REF. TABLE 8, PAGES 43, 44 AND 45)

**Variable Speed Drive**

# VARIABLE SPEED DRIVE PANEL COMPONENTS (CONT'D)

04180-006



Variable Speed Drive

**FIG. 8d** – VARIABLE SPEED DRIVE COMPONENTS - 4 COMP MODEL SHOWN  
(REF. TABLE 8, PAGES 43, 44 AND 45)

## VARIABLE SPEED DRIVE PANEL COMPONENTS (CONT'D)

TABLE 8 – VARIABLE SPEED DRIVE COMPONENTS (SEE. FIGS. 8-8D, PAGES 38-42)

ITEM NUMBER	QTY PER UNIT	DESCRIPTION	YORK PART NUMBER
1	1	POWER ASS'Y, VSD (3 Comp Units)	SEE PAGE 48-51
	2	POWER ASS'Y, VSD (4 Comp Units)	
2	9	CONTACTOR, 3 POLE FAN (3 Comp Units)	024-34916-000
	12	CONTACTOR, 3 POLE FAN (4 Comp Units)	
2A	1	HARNESS, FAN CONTACTOR	571-04178-231
3	1	RELAY, PUMP / FAN	024-30441-000
4	3	TRANSFORMER, 75VA	025-27911-000
5	9	TRANSFORMER, CURRENT (3 Comp Units)	025-21173-009
	12	TRANSFORMER, CURRENT (4 Comp Units)	
6	5	FUSE HOLDER, 1 POLE - 30A	025-39951-000
	7	FUSE HOLDER, 1 POLE - 30A	
7	1	FUSE, 15A (3 Comp Units)	025-34141-000
	2	FUSE, 15A (4 Comp Units)	
8	1	FUSE, 20A (3 Comp Units)	025-35908-000
	2	FUSE, 20A (4 Comp Units)	
9	1	FUSE, 3A (3 Comp Units)	025-40353-000
	2	FUSE, 3A (4 Comp Units)	
10	1	FUSE, 17.5A (3 Comp Units)	025-40149-000
	2	FUSE, 17.5A (4 Comp Units)	
11	4	FUSE HOLDER, 3 POLE - 30A (3 Comp Units)	025-39952-000
	6	FUSE HOLDER, 3 POLE - 30A (4 Comp Units)	
12	9	FUSE, 30A (3 Comp Units)	025-39683-000
	12	FUSE, 30A (4 Comp Units)	
13	2	FUSE, 15A (3 Compressor Units)	025-35907-000
	4	FUSE, 10A (4 Compressor Units)	025-35905-000
14	1	FUSE, 6A (3 Compressor Units)	025-35902-000
	2	FUSE, 6A (4 Compressor Units)	
15	1	VOLTAGE SUPPRESSION BOARD	031-02453-000
16	3	FUSES (3 Compressor Units)	025-38523-000
	4	FUSES (4 Compressor Units)	
17	1	EPROM, CONTROL BOARD (STANDARD)	031-02476-001
		EPROM, CONTROL BOARD (OPTIMIZED)	031-02476-002
18	18	RESISTOR (3 Compressor Units)	025-35953-000
	24	RESISTOR (4 Compressor Units)	
19	18	PAD, THERMAL (3 Compressor Units)	028-15299-000
	24	PAD, THERMAL (4 Compressor Units)	

Variable Speed Drive

# VARIABLE SPEED DRIVE PANEL COMPONENTS (CONT'D)

**TABLE 8 (CONT'D) – VARIABLE SPEED DRIVE COMPONENTS**  
(SEE. FIGS. 8-8D, PAGES 38-42)

ITEM NUMBER	QTY PER UNIT	DESCRIPTION	YORK PART NUMBER
20	9	CAPACITOR (3 Compressor Units)	025-39806-000
	12	CAPACITOR (4 Compressor Units)	
21	1	WIRING KIT, DVDT (3 Compressor Units)	571-04179-211
		WIRING KIT, DVDT (4 Compressor Units)	571-04180-211
22 <sup>S</sup>	1	VSD LOGIC BOARD	031-02477-000
23A	1	RELAY BOARD #1	031-02479-001
23B	1	RELAY BOARD #2	031-02479-002
23C	1	RELAY BOARD #3 (3 Compressor Units)	031-02479-003
		RELAY BOARD #3 (4 Compressor Units)	031-02479-001
24	1	BUS ISOLATION BOARD	031-01624-000
25	1	GASKET, FIELD POWER	028-15246-000
26	1	GASKET, CUST. CONNECTIONS	028-15247-000
27	1	GASKET, CIRCUIT BREAKER	028-15248-000
28	1	GASKET, AUTO TRANSFORMER	028-15249-000
29	1	GASKET, KEYPAD / DISPLAY	028-15250-000
30	1	GASKET, COIL	028-15251-000
31 <sup>S</sup>	1	CONTROL BOARD (3 Compressor Units)	031-02478-001
		CONTROL BOARD (4 Compressor Units)	031-02478-002
32	3	FUSE (3 Compressor Units)	025-39682-000
		FUSE (4 Compressor Units)	025-39681-000
33	1	TERMINAL BLOCK ASSEMBLY	371-04178-356
34	1	KEYPAD, LATITUDE	024-34930-000
34A	1	OVERLAY, KEYPAD ENGLISH	024-34930-001
		OVERLAY, KEYPAD SPANISH	024-34930-002
		OVERLAY, KEYPAD FRENCH	024-34930-003
		OVERLAY, KEYPAD GERMAN	024-34930-004
		OVERLAY, KEYPAD ITALIAN	024-34930-005
35	1	DISPLAY, LATITUDE	031-02508-000
36	1	SWITCH, ON / OFF	024-34951-000
37	1	CABLE, DISPLAY RIBBON (3 Compressor Units)	071-04178-268
		CABLE, DISPLAY RIBBON (4 Compressor Units)	071-04178-266
38	1	CABLE, KEYPAD RIBBON (3 Compressor Units)	071-04178-269
		CABLE, KEYPAD RIBBON (4 Compressor Units)	071-04178-267
39 <sup>S</sup>	1	EPROM, LOGIC BOARD U36	031-02521-001
40	1	PROM, FPGA U41	031-02523-001

# VARIABLE SPEED DRIVE PANEL COMPONENTS (CONT'D)

**TABLE 8 (CONT'D) – VARIABLE SPEED DRIVE COMPONENTS**

(SEE FIGS. 8-8D, PAGES 38-42)

ITEM NUMBER	QTY PER UNIT	DESCRIPTION	YORK PART NUMBER
41 <sup>S</sup>	1	EPROM, LOGIC BOARD U39	031-02522-001
42	AR	GROUND LUGS (3 Compressor Units)	025-20625-000
		GROUND LUGS (4 Compressor Units)	025-32835-000
43	1	TRANSFORMER, 60 Hz CONTROL (3 Comp Units)	025-40114-001
		TRANSFORMER, 60 Hz CONTROL (4 Comp Units)	025-40114-003
		TRANSFORMER, 50 Hz CONTROL (3 Comp Units)	025-40114-002
		TRANSFORMER, 50 Hz CONTROL (3 Comp Units)	025-40114-004
44 <sup>S</sup>	2	CONTROLLER, VALVE	031-02510-000
45	1	PANEL COOLING FAN ASSEMBLY	SEE PAGE 46
46	1	SCR TRIGGER BOARD (60 Hz)	031-02060-001
		SCR TRIGGER BOARD (50 Hz)	031-02060-002
47	1	SP TERMINAL BLOCK KIT (-40 & -50) (3 Comp Units)	371-04460-003
	2	SP TERMINAL BLOCK KIT (-40 & -50) (4 Comp Units)	371-04460-002
	1	SP TERMINAL BLOCK KIT (-46) (3 Comp Units)	371-04460-005
	2	SP TERMINAL BLOCK KIT (-46) (4 Comp Units)	371-04460-004
	1	SP TERMINAL BLOCK KIT (-58) (3 Comp Units)	371-04460-002
	2	SP TERMINAL BLOCK KIT (-58) (4 Comp Units)	371-04460-001
48	1	CABLE, RIBBON (RELAY BOARD #1)	071-04178-263
49	1	CABLE, RIBBON (RELAY BOARD #2)	071-04178-264
50	1	SP CIRCUIT BREAKER KIT (-40) (3 Comp Units)	371-04459-104
		SP CIRCUIT BREAKER KIT (-40) (4 Comp Units)	371-04459-102
		SP CIRCUIT BREAKER KIT (-46) (3 Comp Units)	371-04459-106
		SP CIRCUIT BREAKER KIT (-46) (4 Comp Units)	371-04459-102
		SP CIRCUIT BREAKER KIT (-50) (3 Comp Units)	371-04459-103
		SP CIRCUIT BREAKER KIT (-50) (4 Comp Units)	371-04459-101
		SP CIRCUIT BREAKER KIT (-58) (3 Comp Units)	371-04459-102
		SP CIRCUIT BREAKER KIT (-58) (4 Comp Units)	371-04459-105
51	1	OPERATOR KIT (SHAFT & HANDLE)	024-34924-000
52	1	MICRO-GATEWAY BOARD	031-02039-000
53	1	INDUCTOR (3 Compressor Units)	025-39676-000
	2	INDUCTOR (4 Compressor Units)	025-39677-000
54	3	SWITCH, DISCONNECT 400A (3 Comp Units)	024-34976-001
	4	SWITCH, DISCONNECT 400A (4 Comp Units)	
55	3	HANDLE, DISCONNECT SWITCH (3 Comp Units)	024-34976-002
	4	HANDLE, DISCONNECT SWITCH (4 Comp Units)	
56	12	TERMINAL BLOCK	025-20944-000

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# VARIABLE SPEED DRIVE PANEL COMPONENTS (CONT'D)



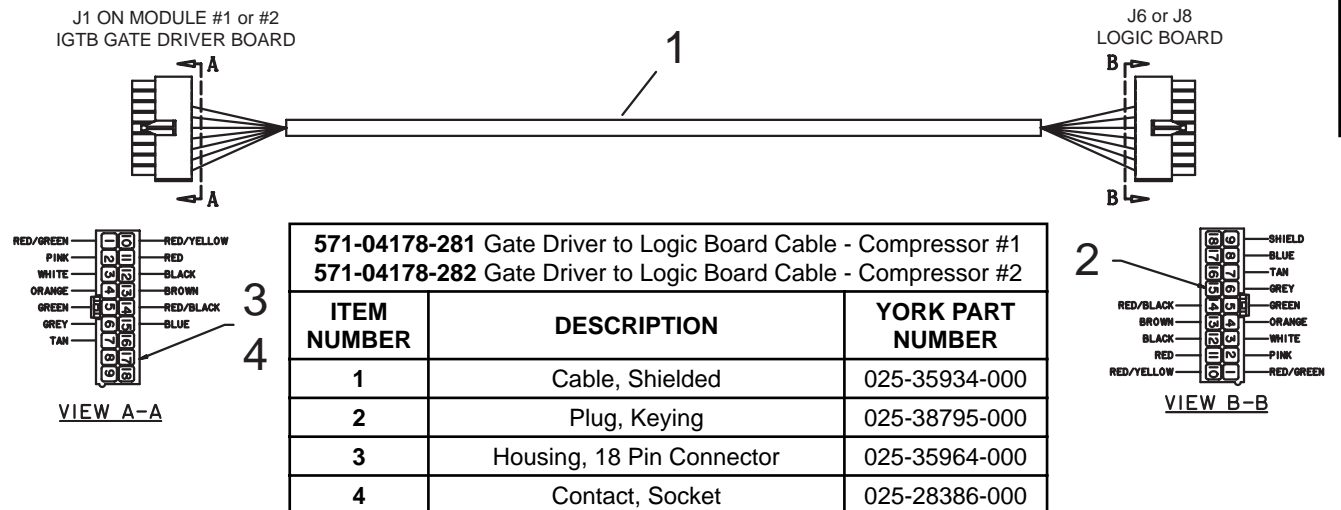
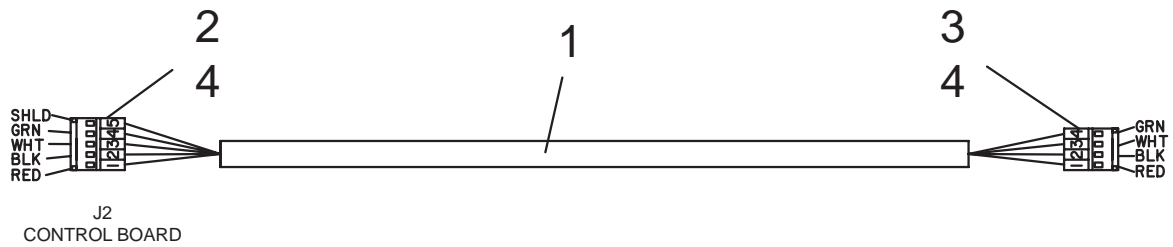
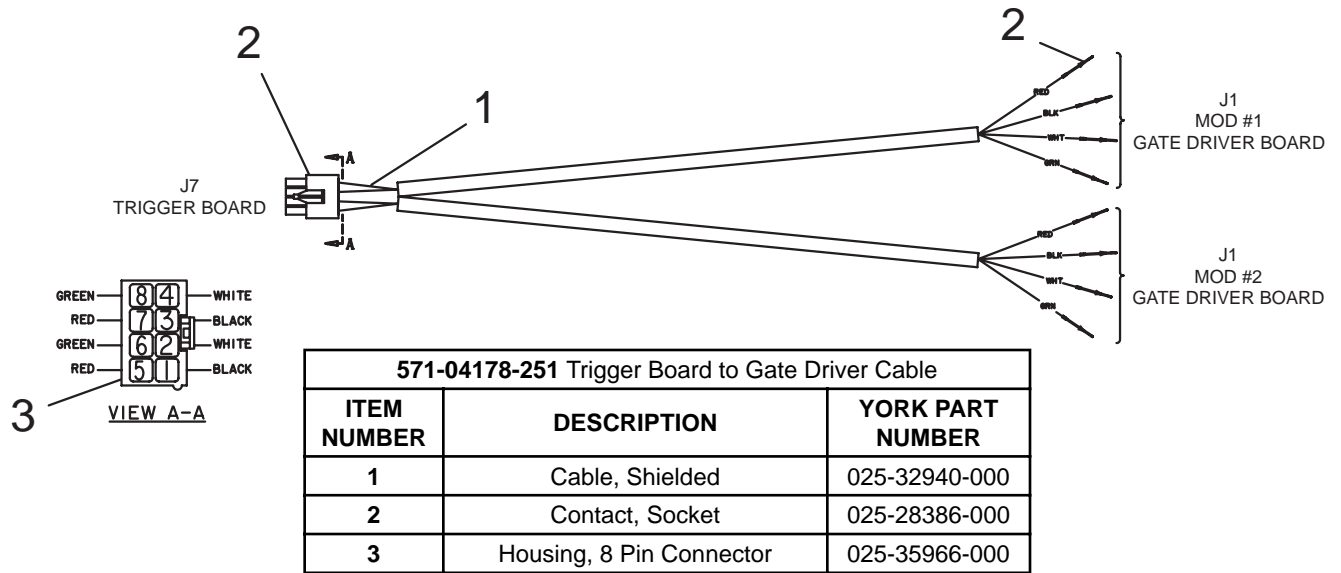
AUTOTRANSFORMER

TABLE 8a – AUTOTRANSFORMER

MODEL YCAV	VOLTAGE CODE	QUANTITY PER UNIT	YORK PART NUMBER	
			PIN #9 = S or P	PIN #9 = E or V
0267-0357	40	1	371-55898-006	
	46	n/a	Not Required	
	50	1	371-55898-007	
	58	1	371-55898-008	
0397	40	1	371-55898-006	371-55898-009
	46	n/a	Not Required	Not Required
	50	1	371-55898-007	371-55898-010
	58	1	371-55898-008	371-55898-011
0417-0527	40	1	371-55898-009	
	46	n/a	Not Required	
	50	1	371-55898-010	
	58	1	371-55898-011	

Variable Speed Drive

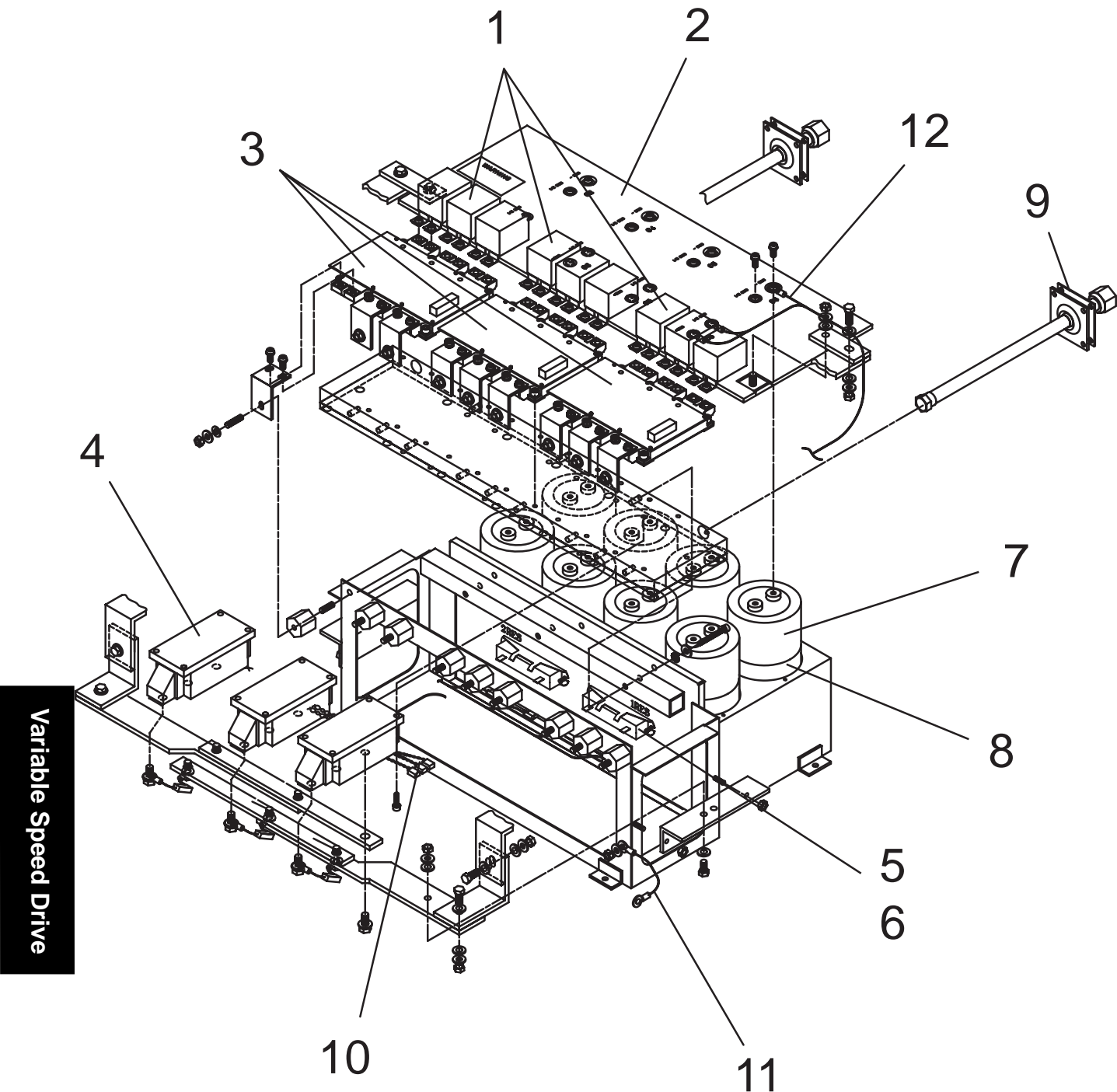
# VARIABLE SPEED DRIVE PANEL COMPONENTS (CONT'D)



Variable Speed Drive

FIG. 8E – CABLE PART NUMBERS

# VARIABLE SPEED DRIVE POWER ASSEMBLY COMPONENTS - 3 COMPRESSOR UNITS



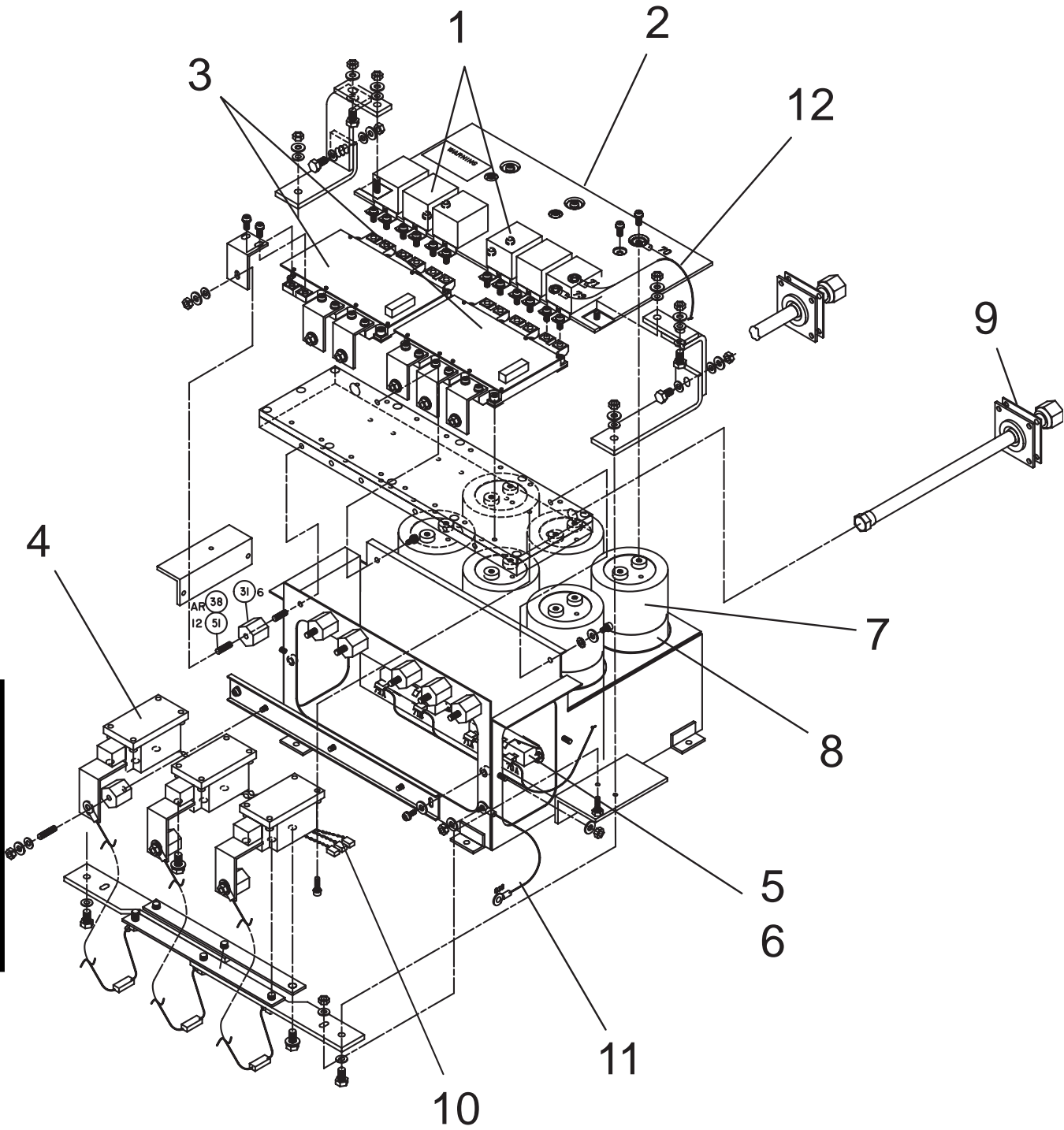
**FIG. 9A – VARIABLE SPEED DRIVE POWER ASSEMBLY COMPONENTS - 3 COMPRESSOR UNITS (REF. TABLE 9A, PAGE 49)**

## VARIABLE SPEED DRIVE POWER ASSEMBLY COMPONENTS - 3 COMPRESSOR UNITS (CONT'D)

**TABLE 9A** – VARIABLE SPEED DRIVE (371-04192-000) POWER ASSEMBLY  
COMPONENTS - 3 COMPRESSOR UNITS (SEE FIG. 9A, PAGE 48)

ITEM NUMBER	QUANTITY PER UNIT	DESCRIPTION	YORK PART NUMBER
1	9	CAPACITOR	025-35972-000
2	1	BUSS PLATE KIT	371-04192-320
3	3	IGBT ASSEMBLY KIT	371-04181-336
4	3	DIODE MODULE KIT	031-02495-000
5	2	RESISTOR	025-35157-000
6	2	THERMAL PAD	028-15299-000
7	8	CAPACITOR	025-39573-000
8	8	INSULATOR, CAPACITOR	071-02769-319
9	2	GASKET	028-15113-000
10	1	HARNESS, SCR TO TRIGGER BD.	571-04192-221
11	1	HARNESS, GROUND	571-04181-242
12	1	HARNESS, EQUALIZER	571-04192-241

# VARIABLE SPEED DRIVE POWER ASSEMBLY COMPONENTS - 4 COMPRESSOR UNITS



**FIG. 9B – VARIABLE SPEED DRIVE POWER ASSEMBLY COMPONENTS - 4 COMPRESSOR UNITS (REF. TABLE 9B, PAGE 51)**

## VARIABLE SPEED DRIVE POWER ASSEMBLY COMPONENTS - 4 COMPRESSOR UNITS (CONT'D)

**TABLE 9B** – VARIABLE SPEED DRIVE (USE TWO 371-04181-000) POWER ASSEMBLY COMPONENTS - 4 COMPRESSOR UNITS (SEE FIG. 9B, PAGE 50)

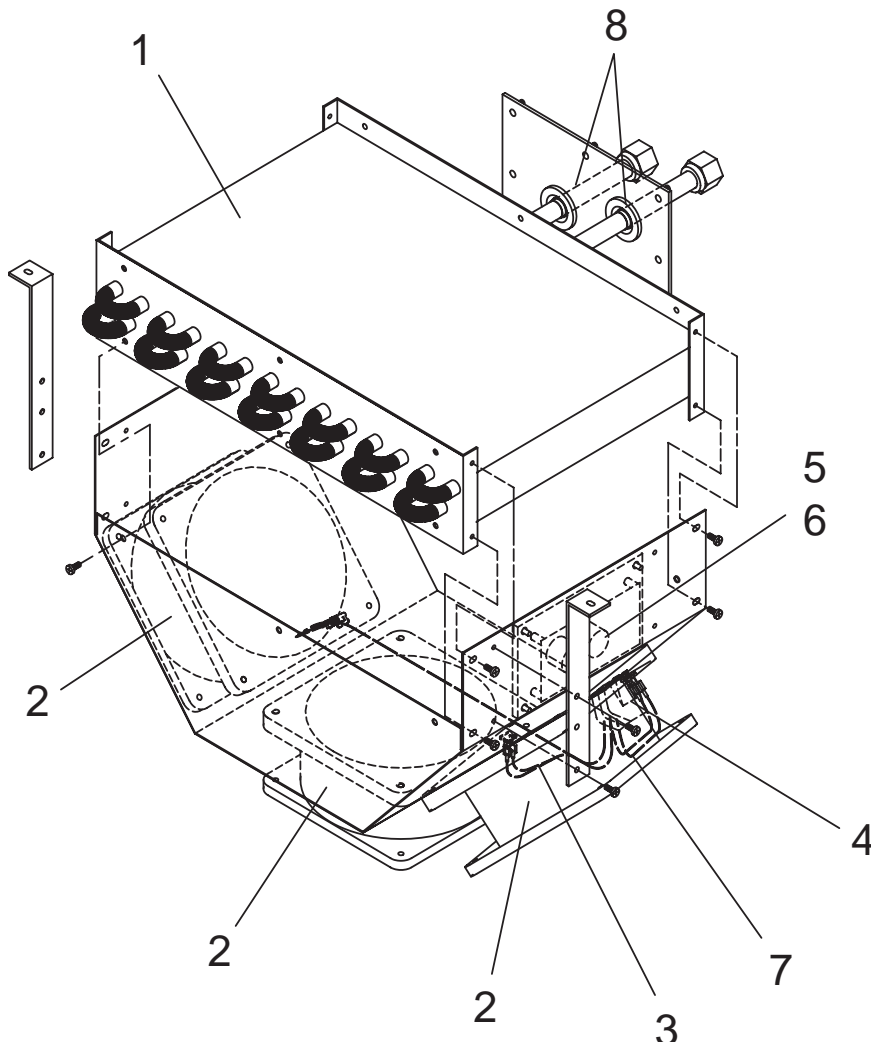
ITEM NUMBER	QUANTITY PER UNIT	DESCRIPTION	YORK PART NUMBER
1	12	CAPACITOR	025-35972-000
2	2	BUSS PLATE KIT	371-04181-320
3	4	IGBT ASSEMBLY KIT	371-04181-336
4	6	DIODE MODULE KIT	031-02494-000
5	4	RESISTOR	025-35157-000
6	4	THERMAL PAD	028-15299-000
7	12	CAPACITOR	025-39573-000
8	12	INSULATOR, CAPACITOR	071-02769-319
9	4	GASKET	028-15113-000
10	2	HARNESS, SCR TO TRIGGER BD.	571-04181-221
11	2	HARNESS, GROUND	571-04181-242
12	2	HARNESS, EQUALIZER	571-04181-241

# VARIABLE SPEED DRIVE FAN ASSEMBLY COMPONENTS

## 3 COMPRESSOR UNITS

**TABLE 10A** – VARIABLE SPEED DRIVE FAN ASSEMBLY COMPONENTS  
3 COMPRESSOR UNITS (SEE FIG. 10A)

ITEM NUMBER	QUANTITY PER UNIT	DESCRIPTION	YORK PART NUMBER
1	1	COIL, GLYCOL COOLING	026-41590-000
2	3	FAN, COOLING 115V	025-40105-000
3	1	HARNESS, FAN ASSEMBLY	571-04179-241
4	2	TERMINAL BLOCK	025-20944-000
5	1	INVERTER (50HZ ONLY)	031-02533-000
6	AR	COMPOUND, HEAT CONDUCTIVE (USE WITH ITEM #5)	013-02997-000
7	1	HARNESS, INVERTER (50HZ ONLY)	571-04179-243
8	2	GROMMET	028-04873-000



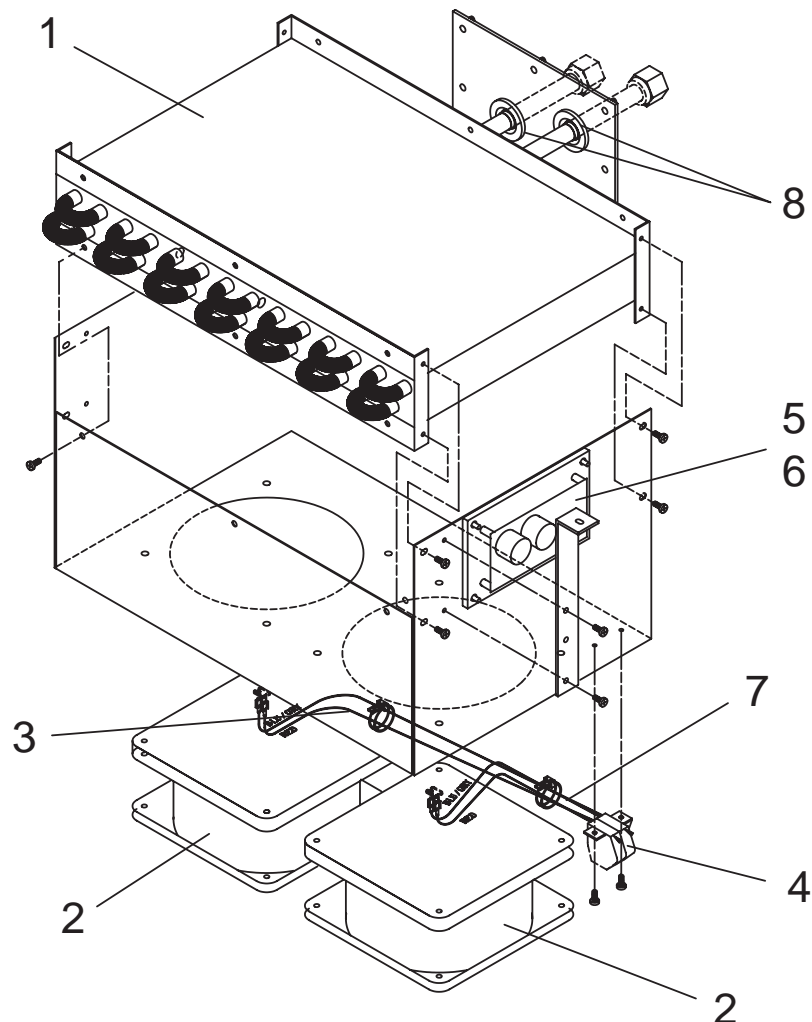
04179-500c

**FIG. 10A** – VARIABLE SPEED DRIVE FAN ASSEMBLY COMPONENTS  
3 COMPRESSOR UNITS (REF. TABLE 10A)

# VARIABLE SPEED DRIVE FAN ASSEMBLY COMPONENTS 4 COMPRESSOR UNITS

**TABLE 10B** – VARIABLE SPEED DRIVE FAN ASSEMBLY COMPONENTS  
4 COMPRESSOR UNITS (SEE FIG. 10B)

ITEM NUMBER	QUANTITY PER UNIT	DESCRIPTION	YORK PART NUMBER
1	2	COIL, GLYCOL COOLING	026-41590-000
2	4	FAN, COOLING 115V	025-40105-000
3	1	HARNESS, FAN ASSEMBLY	571-04179-245
4	4	TERMINAL BLOCK	025-20944-000
5	2	INVERTER (50HZ ONLY)	031-02533-000
6	AR	COMPOUND, HEAT CONDUCTIVE (USE WITH ITEM #5)	013-02997-000
7	1	HARNESS, INVERTER (50HZ ONLY)	571-04179-246
8	4	GROMMET	028-04873-000



Variable Speed Drive

04180-500

**FIG. 10B** – VARIABLE SPEED DRIVE FAN ASSEMBLY COMPONENTS  
4 COMPRESSOR UNITS (REF. TABLE 10B)

# PLUG / JUMPER ARRANGEMENT

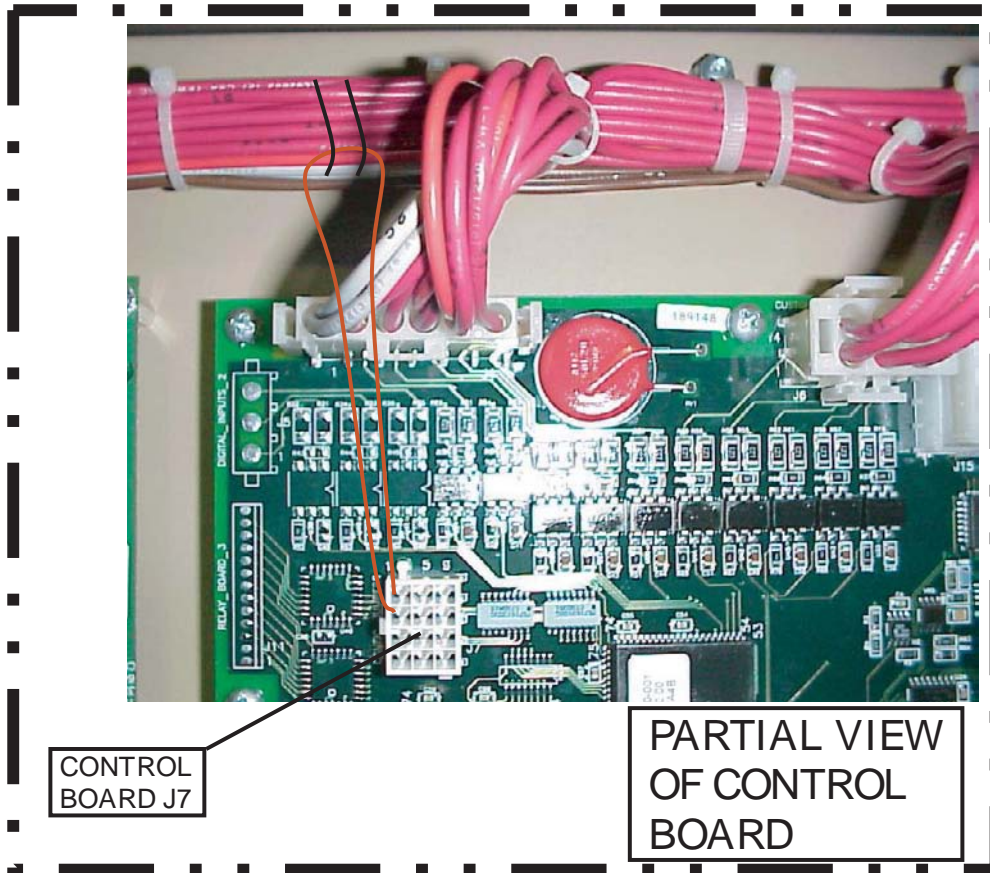


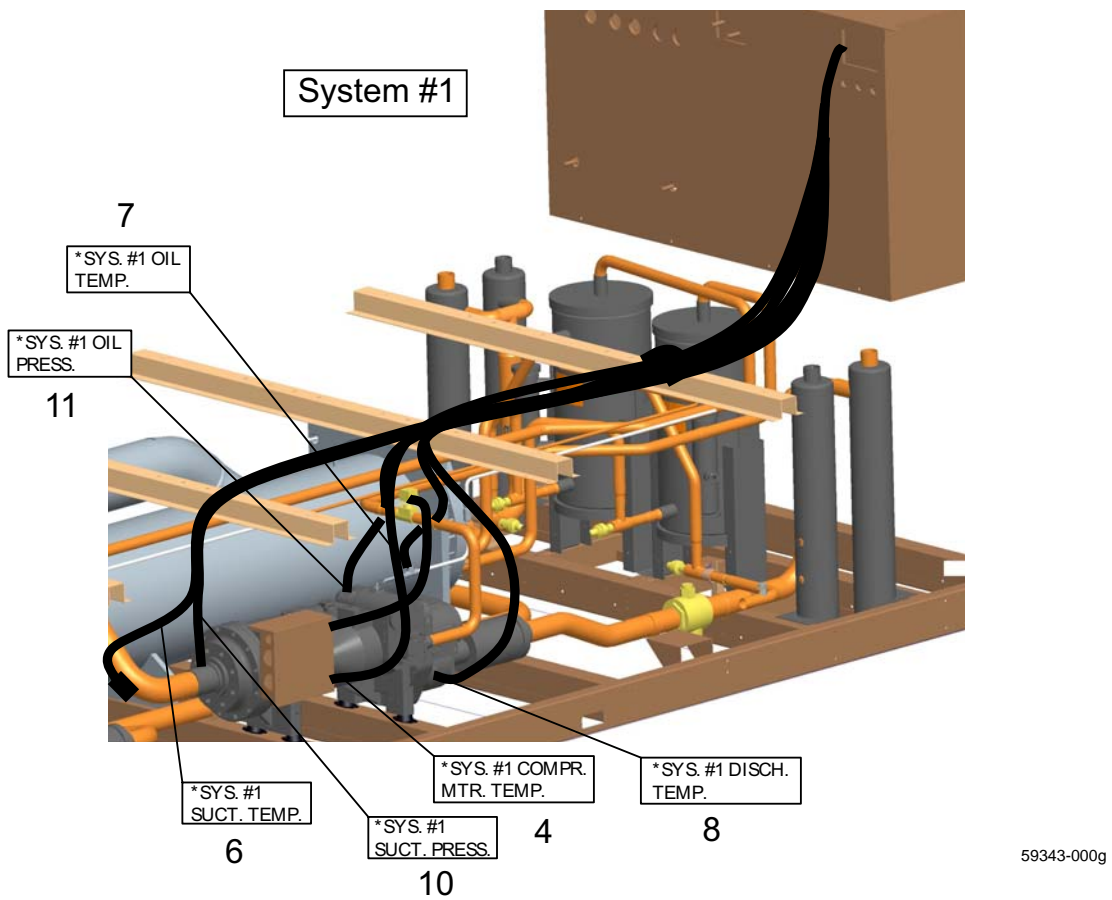
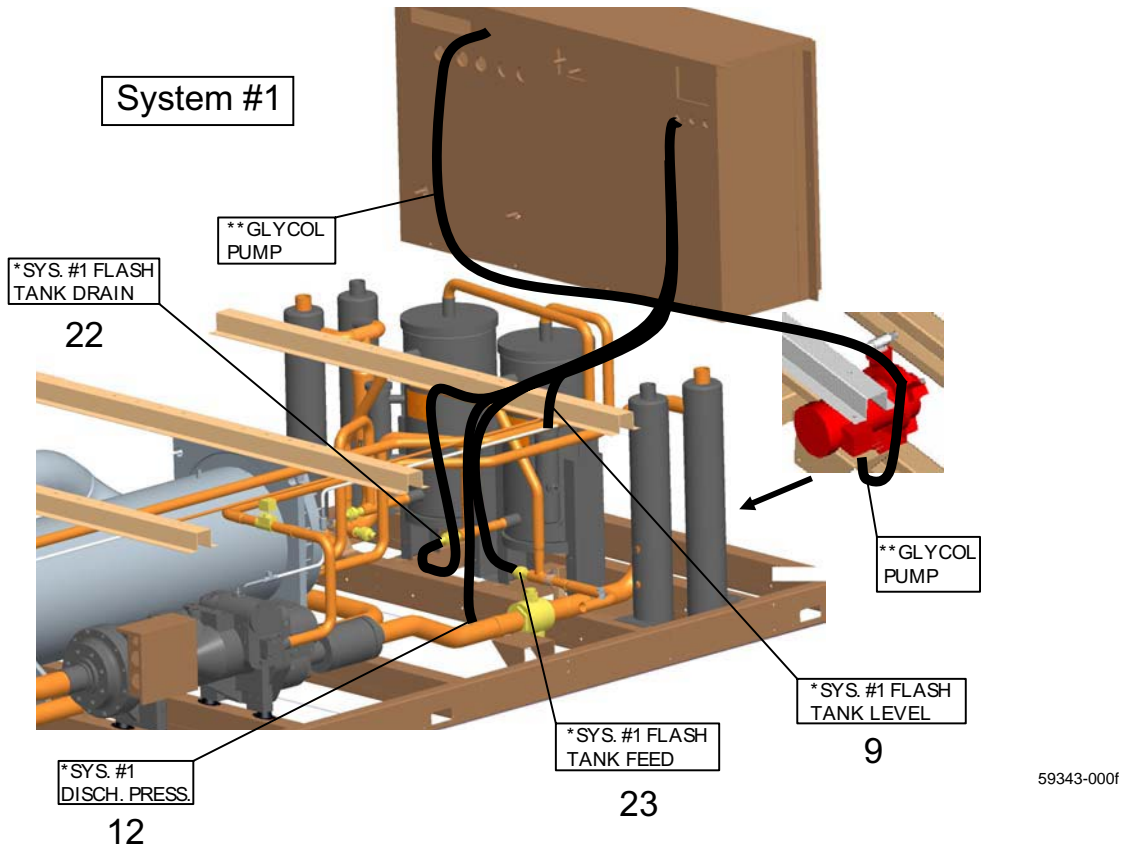
FIG. 11 – PLUG / JUMPER ARRANGEMENT (REF. TABLE 11, PAGE 55)

# PLUG / JUMPER ARRANGEMENT (CONT'D)

**TABLE 11 – PLUG / JUMPER ARRANGEMENT (SEE FIG. 11, PAGE 54)**

PLUG / JUMPER ARRANGEMENT			
PLUG P/N	JUMPER DETAIL	MODELS 60HZ	MAX VSD FREQUENCY
371-04484-101		YCAV0267EA/VA - YCAV0969EA/VA	182
371-04484-102		YCAV0287SA/PA - YCAV1039SA/PA	186
371-04484-103		YCAV0327EA/VA - YCAV1169EA/VA YCAV0357EA/VA - YCAV1309EA/VA YCAV0417EA/VA - YCAV1549EA/VA YCAV0457SA/PA - YCAV1649SA/PA YCAV0477EA/VA - YCAV1739EA/VA	192
371-04484-104		YCAV0267SA/PA - YCAV0969SA/PA YCAV0357SA/PA - YCAV1309SA/PA YCAV0397SA/PA - YCAV1429SA/PA YCAV0477EA/VA - YCAV1739SA/PA YCAV0507SA/PA - YCAV1829SA/PA YCAV0527SA/PA - YCAV1909SA/PA	200
371-04484-105		YCAV0417SA/PA - YCAV1549SA/PA	196
371-04484-106		YCAV0307SA/PA - YCAV1139SA/PA	188
371-04484-107		YCAV0287EA/VA - YCAV1039EA/VA YCAV0397EA/VA - YCAV1429EA/VA	178

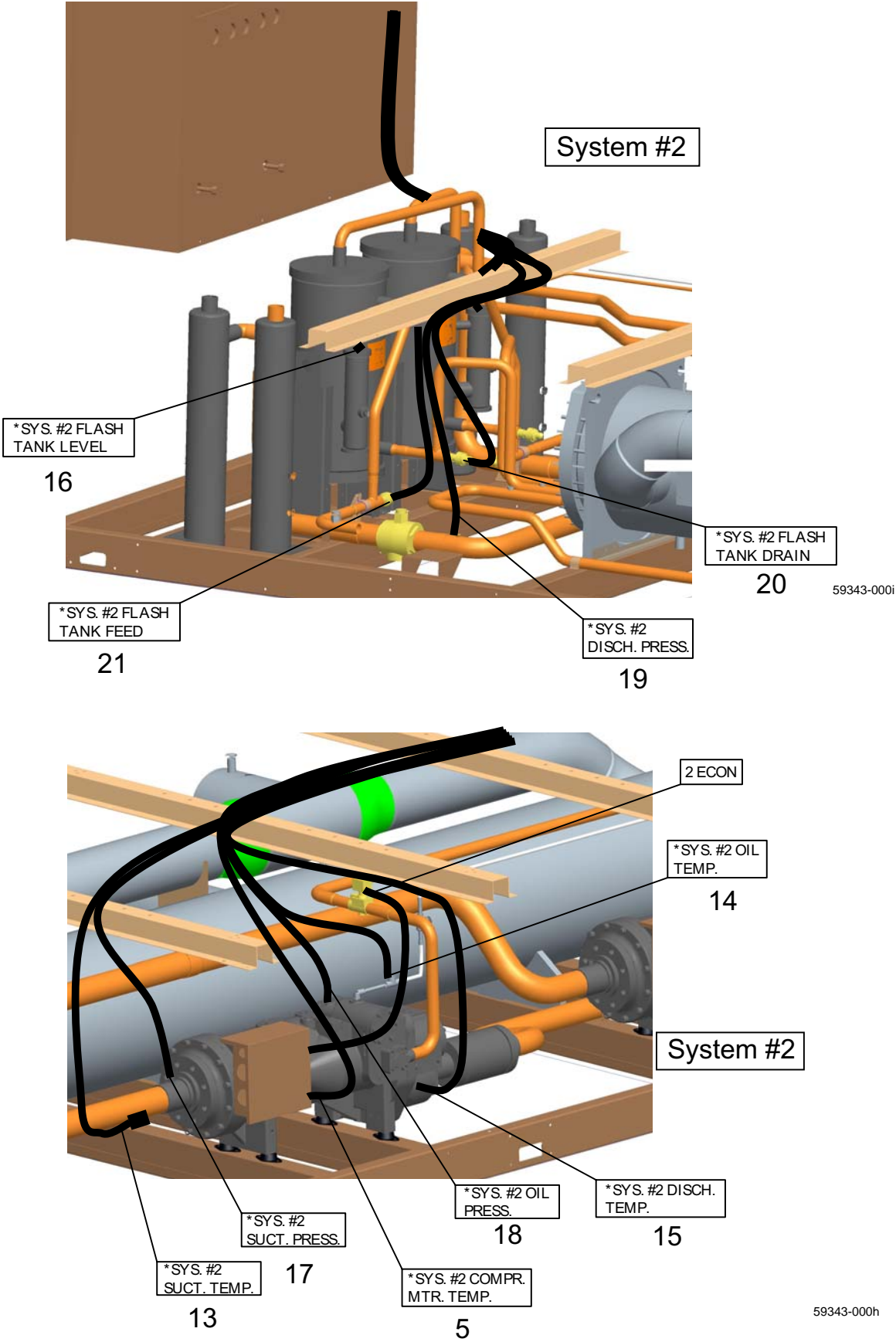
# SENSOR HARNESSSES



Sensor Harnesses

FIG. 12A – HARNESS LAYOUT (REF. TABLE 12, PAGES 61 - 65)

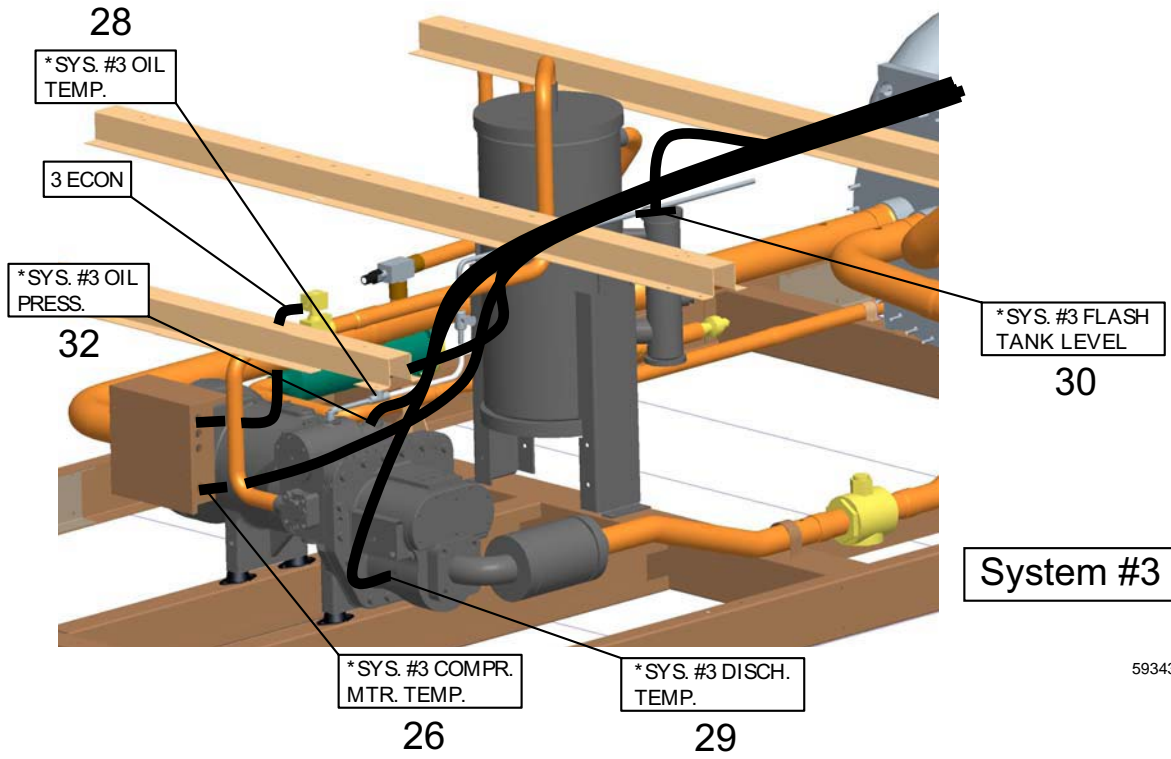
# SENSOR HARNESSSES (CONT'D)



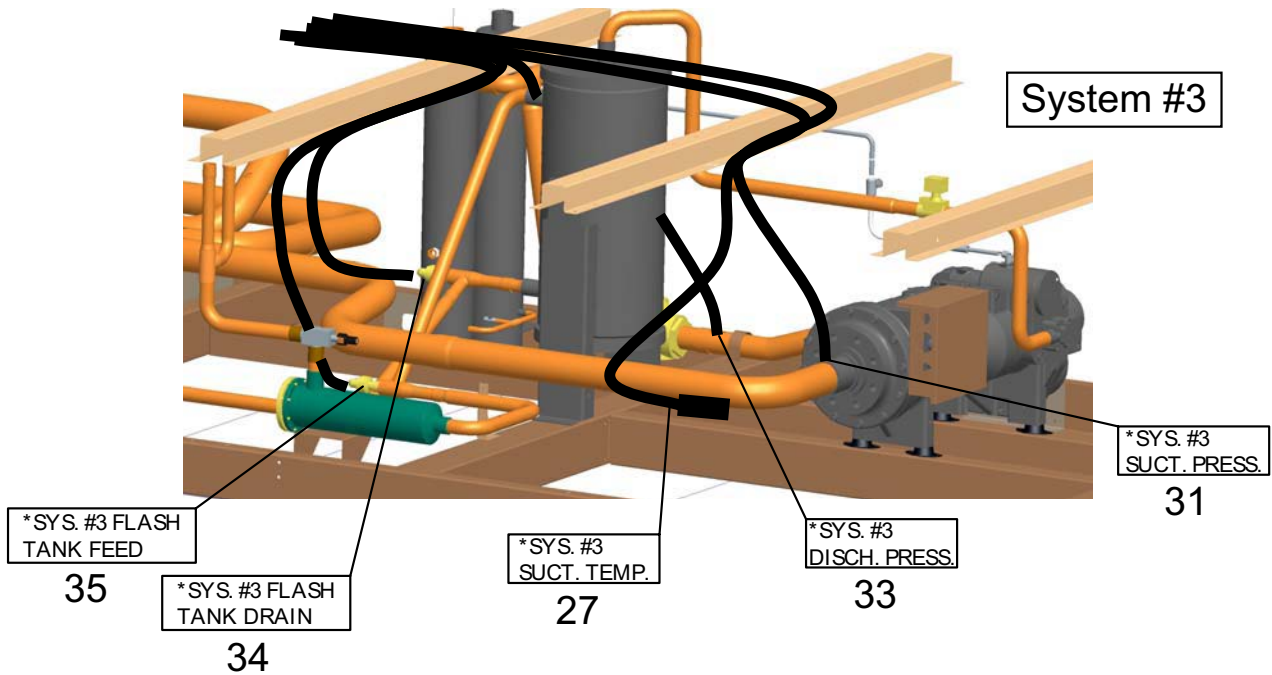
Sensor Harnesses

FIG. 12B – HARNESS LAYOUT (REF. TABLE 12, PAGES 61 - 65)

# SENSOR HARNESSSES (CONT'D)



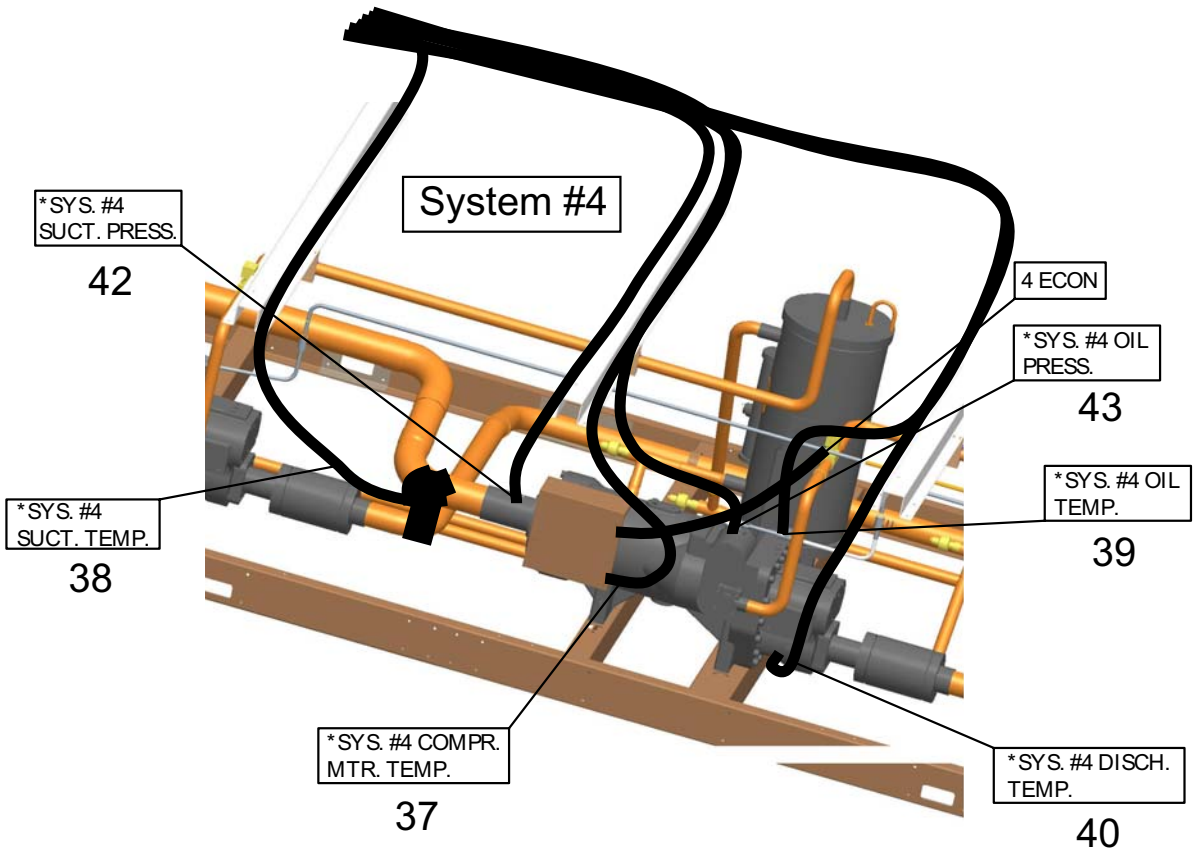
59343-000k



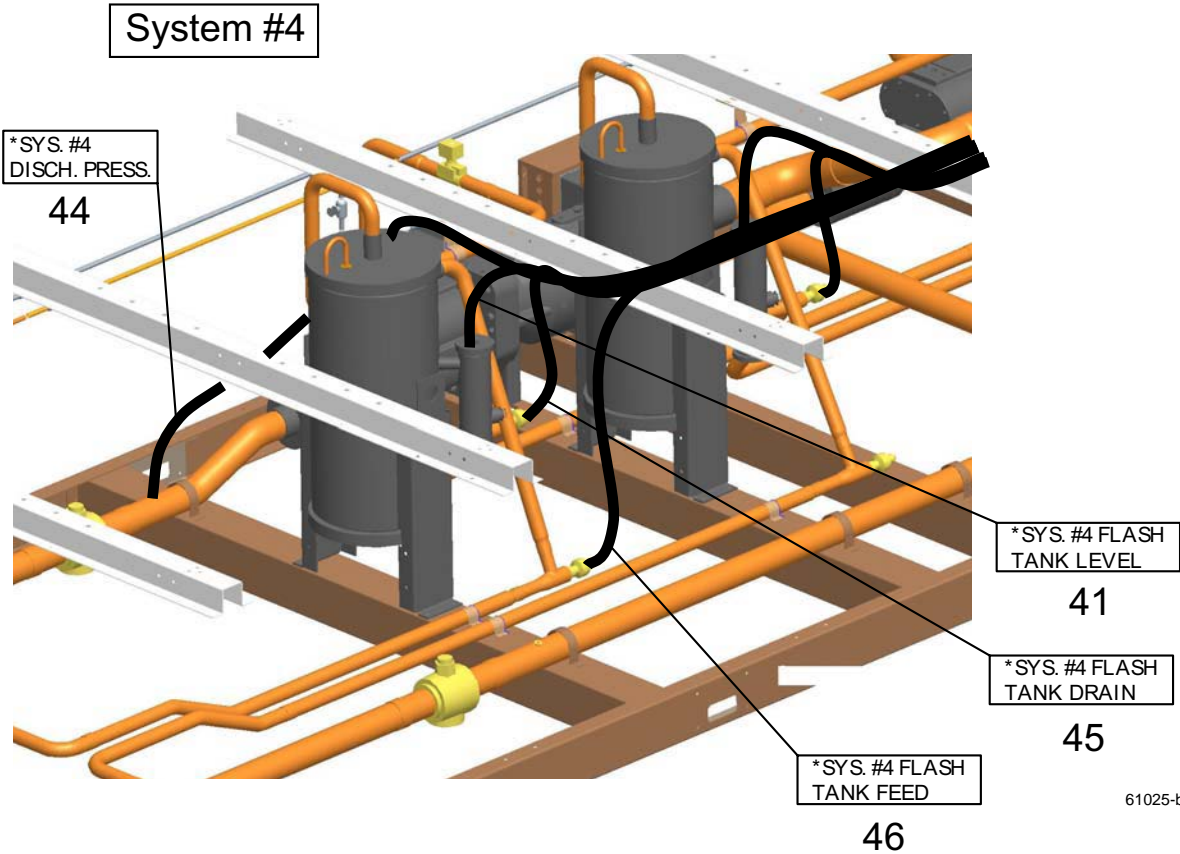
59343-000j

FIG. 12C – HARNESS LAYOUT (REF. TABLE 12, PAGES 61 - 65)

# SENSOR HARNESSSES (CONT'D)



61025-a



61025-b

Sensor Harnesses

FIG. 12D – HARNESS LAYOUT (REF. TABLE 12, PAGES 61 - 65)

# SENSOR HARNESSSES (CONT'D)

59343-000d

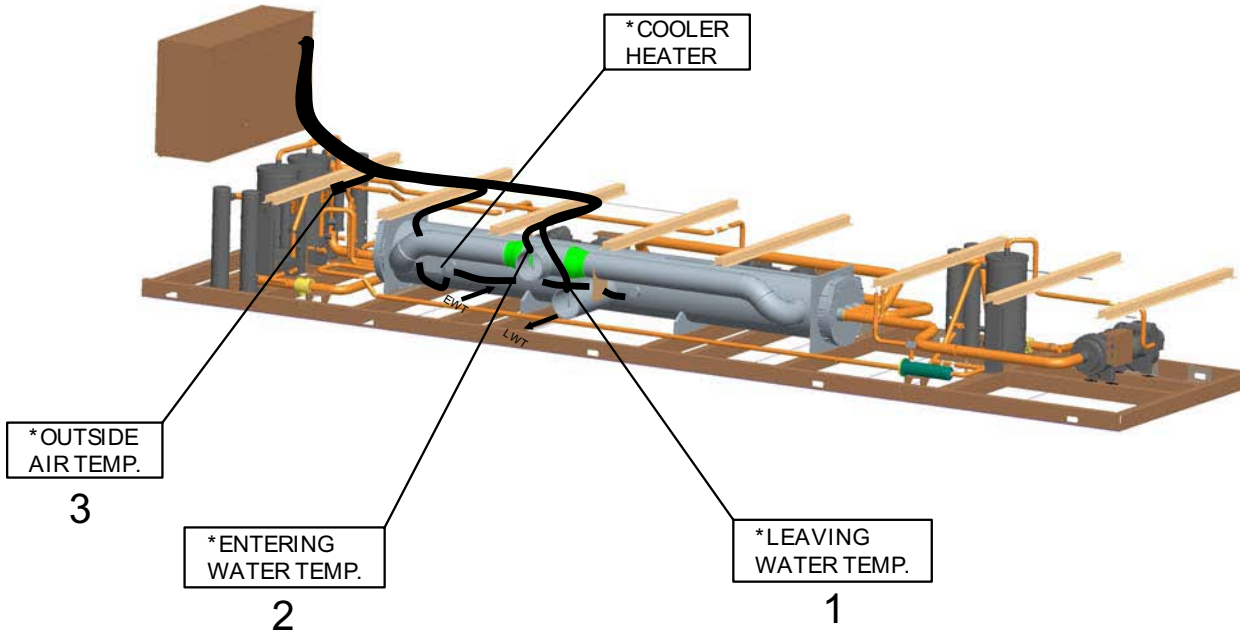



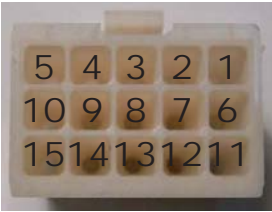


FIG. 12E – HARNESS LAYOUT (REF. TABLE 12, PAGES 61 - 65)

## SENSOR HARNESES (CONT'D)




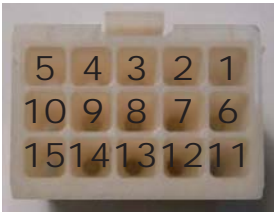
**TABLE 12 – SENSOR HARNESS WIRING (SEE FIGS. 12A, 12B, 12C, 12D AND 12E, PAGES 55 - 59)**

SYSTEM #1 SENSOR WIRING										
Plug Detail	Plug and Pin P/N	Plug "P" No.	Plug Pin No.	Wire Color	Cable #	Function	Harness Assembly Part Number			
	Plug = 025-28383-000  Pin = 025-28386-000	<b>P26</b>	1	Green	4	System #1 Compressor Motor Temperature	575-54455-345 (3 Comp Units) 575-54455-357 (4 Comp Units)			
			2	Red						
			3	Black						
			4	White						
						5	Drain	9	System #1 Flash Tank Level	575-54455-315
			6	White						
			7	Red						
			8	Black						
			9	Drain						
	Plug = 025-29185-000  Pin = 025-28386-000	<b>P27</b>	1	Black	6	System #1 Suction Temperature	575-54455-341 (3 Comp Units) 575-54455-358 (4 Comp Units)			
			2	Red						
			3	Drain						
	Plug = 025-28384-000  Pin = 025-28386-000	<b>P28</b>	1	Black	8	System #1 Discharge Temperature	575-54455-343 (3 Comp Units) 575-54455-359 (4 Comp Units)			
			2	Red						
			3	Drain						
						5	Green	22	System #1 Flash Tank Drain	575-54455-319
			6	Red						
			7	Black						
			8	White						
						9	Green	23	System #1 Flash Tank Feed	575-54455-320
			10	Red						
			11	Black						
			12	White						
				Plug = 025-28385-000  Pin = 025-28386-000	<b>P29</b>	1	White	10	System #1 Suction Pressure	575-54455-337 (3 Comp Units) 575-54455-360 (4 Comp Units)
2	Red									
3	Black									
4	Drain									
						6	White	11	System #1 Oil Pressure	575-54455-339 (3 Comp Units) 575-54455-361 (4 Comp Units)
7	Red									
8	Black									
						9	Drain	12	System #1 Discharge Pressure	575-54455-306
11	White									
12	Red									
13	Black									
						14	Drain	7	System #1 Oil Temperature	575-54455-335 (3 Comp Units) 575-54455-362 (4 Comp Units)
5	Black									
10	Red									
						15	Drain			

**Sensor Harnesses**




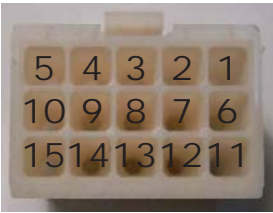
## SENSOR HARNESSSES (CONT'D)

**TABLE 12 (CONT'D) – SENSOR HARNESS WIRING (SEE FIGS. 12A, 12B, 12C, 12D AND 12E, PAGES 55 - 59)**

SYSTEM #2 SENSOR WIRING							
Plug Detail	Plug and Pin P/N	Plug "P" No.	Plug Pin No.	Wire Color	Cable #	Function	Harness Assembly Part Number
	Plug = 025-28383-001  Pin = 025-28386-000	<b>P30</b>	1	Green	5	System #2 Compressor Motor Temperature	575-54455-346 (3 Comp Units) 575-54455-363 (4 Comp Units)
			2	Red			
			3	Black			
			4	White			
			5	Drain			
			6	White	16	System #2 Flash Tank Level	575-54455-316
			7	Red			
			8	Black			
			9	Drain			
	Plug = 025-29185-001  Pin = 025-28386-000	<b>P31</b>	1	Black	13	System #2 Suction Temperature	575-54455-342 (3 Comp Units) 575-54455-364 (4 Comp Units)
			2	Red			
			3	Drain			
	Plug = 025-28384-001  Pin = 025-28386-000	<b>P32</b>	1	Black	15	System #2 Discharge Temperature	575-54455-344 (3 Comp Units) 575-54455-365 (4 Comp Units)
			2	Red			
			3	Drain			
			5	Green	20	System #2 Flash Tank Drain	575-54455-321
			6	Red			
			7	Black			
			8	White			
			9	Green	21	System #2 Flash Tank Feed	575-54455-322
			10	Red			
11	Black						
12	White						
	Plug = 025-28385-001  Pin = 025-28386-000	<b>P33</b>	1	White	17	System #2 Suction Pressure	575-54455-338 (3 Comp Units) 575-54455-366 (4 Comp Units)
			2	Red			
			3	Black			
			4	Drain			
			6	White			
			7	Red	18	System #2 Oil Pressure	575-54455-340 (3 Comp Units) 575-54455-367 (4 Comp Units)
			8	Black			
			9	Drain			
			11	White			
			12	Red	19	System #2 Discharge Pressure	575-54455-307
			13	Black			
			14	Drain			
			5	Black			
			10	Red	14	System #2 Oil Temperature	575-54455-336 (3 Comp Units) 575-54455-368 (4 Comp Units)
			15	Drain			

## SENSOR HARNESSSES (CONT'D)




**TABLE 12 – SENSOR HARNESS WIRING (SEE FIGS. 12A, 12B, 12C, 12D AND 12E, PAGES 56 - 60)**

SYSTEM #3 SENSOR WIRING										
Plug Detail	Plug and Pin P/N	Plug "P" No.	Plug Pin No.	Wire Color	Cable #	Function	Harness Assembly Part Number			
	Plug = 025-28383-002  Pin = 025-28386-000	P48	1	Green	26	System #3 Compressor Motor Temperature	575-54455-330 (3 Comp Units) 575-54455-376 (4 Comp Units)			
			2	Red						
			3	Black						
			4	White						
						5	Drain	30	System #3 Flash Tank Level	575-54455-329 (3 Comp Units) 575-54455-375 (4 Comp Units)
						6	White			
						7	Red			
						8	Black			
						9	Drain			
	Plug = 025-29185-002  Pin = 025-28386-000	P49	1	Black	27	System #3 Suction Temperature	575-54455-327 (3 Comp Units) 575-54455-373 (4 Comp Units)			
									2	Red
									3	Drain
	Plug = 025-28384-002  Pin = 025-28386-000	P50	1	Black	29	System #3 Discharge Temperature	575-54455-328 (3 Comp Units) 575-54455-374 (4 Comp Units)			
									2	Red
									3	Drain
						5	Green	34	System #3 Flash Tank Drain	575-54455-331 (3 Comp Units) 575-54455-377 (4 Comp Units)
						6	Red			
						7	Black			
						8	White	35	System #3 Flash Tank Feed	575-54455-332 (3 Comp Units) 575-54455-378 (4 Comp Units)
						9	Green			
						10	Red			
						11	Black			
						12	White			
				Plug = 025-28385-002  Pin = 025-28386-000	P51	1	White	31	System #3 Suction Pressure	575-54455-324 (3 Comp Units) 575-54455-370 (4 Comp Units)
						2	Red			
						3	Black			
						4	Drain			
						6	White			
						7	Red	32	System #3 Oil Pressure	575-54455-325 (3 Comp Units) 575-54455-371 (4 Comp Units)
						8	Black			
						9	Drain			
						11	White	33	System #3 Discharge Pressure	575-54455-326 (3 Comp Units) 575-54455-372 (4 Comp Units)
						12	Red			
						13	Black			
						14	Drain			
						5	Black	28	System #3 Oil Temperature	575-54455-323 (3 Comp Units) 575-54455-369 (4 Comp Units)
						10	Red			
						15	Drain			

**Sensor Harnesses**


## SENSOR HARNESSES (CONT'D)


**TABLE 12 (CONT'D) – SENSOR HARNESS WIRING (SEE FIGS. 12A, 12B, 12C, 12D AND 12E, PAGES 56 - 60)**

SYSTEM #4 SENSOR WIRING										
Plug Detail	Plug and Pin P/N	Plug "P" No.	Plug Pin No.	Wire Color	Cable #	Function	Harness Assembly Part Number			
	Plug = 025-28383-003  Pin = 025-28386-000	<b>P52</b>	1	Green	37	System #4 Compressor Motor Temperature	575-54455-354			
			2	Red						
			3	Black						
						4	White	41	System #4 Flash Tank Level	575-54455-353
						5	Drain			
						6	White			
						7	Red			
						8	Black			
						9	Drain			
	Plug = 025-29185-003  Pin = 025-28386-000	<b>P53</b>	1	Black	38	System #4 Suction Temperature	575-54455-351			
			2	Red						
			3	Drain						
	Plug = 025-28384-003  Pin = 025-28386-000	<b>P54</b>	1	Black	40	System #4 Discharge Temperature	575-54455-352			
			2	Red						
			3	Drain						
						5	Green	45	System #4 Flash Tank Drain	575-54455-355
						6	Red			
						7	Black			
						8	White	46	System #4 Flash Tank Feed	575-54455-356
						9	Green			
						10	Red			
						11	Black	42	System #4 Suction Pressure	575-54455-348
						12	White			
						1	White			
2	Red									
3	Black									
						6	White			
			7	Red						
			8	Black						
			9	Drain	39	System #4 Oil Temperature	575-54455-347			
			11	White						
			12	Red						
			13	Black						
			14	Drain						
			5	Black						
			10	Red						
			15	Drain						

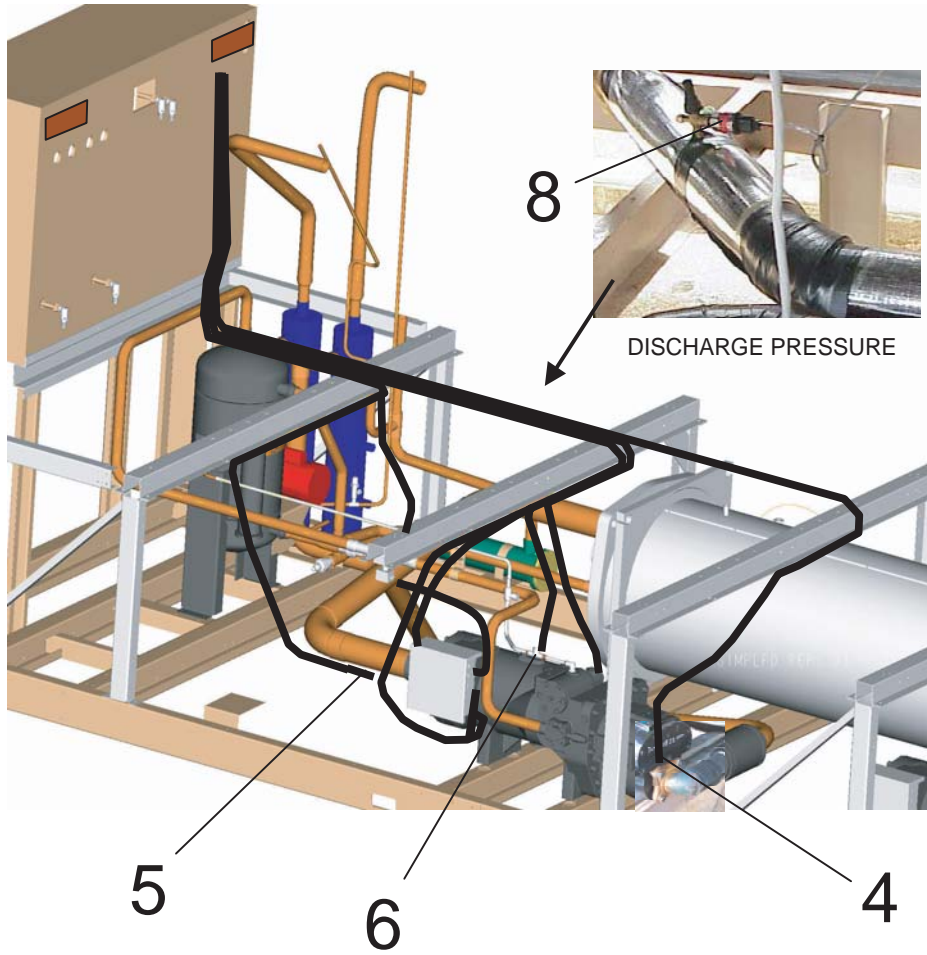
## SENSOR HARNESSSES (CONT'D)

**TABLE 12 (CONT'D) – SENSOR HARNESS WIRING (SEE FIGS. 12A, 12B, 12C, 12D AND 12E, PAGES 56 - 60)**

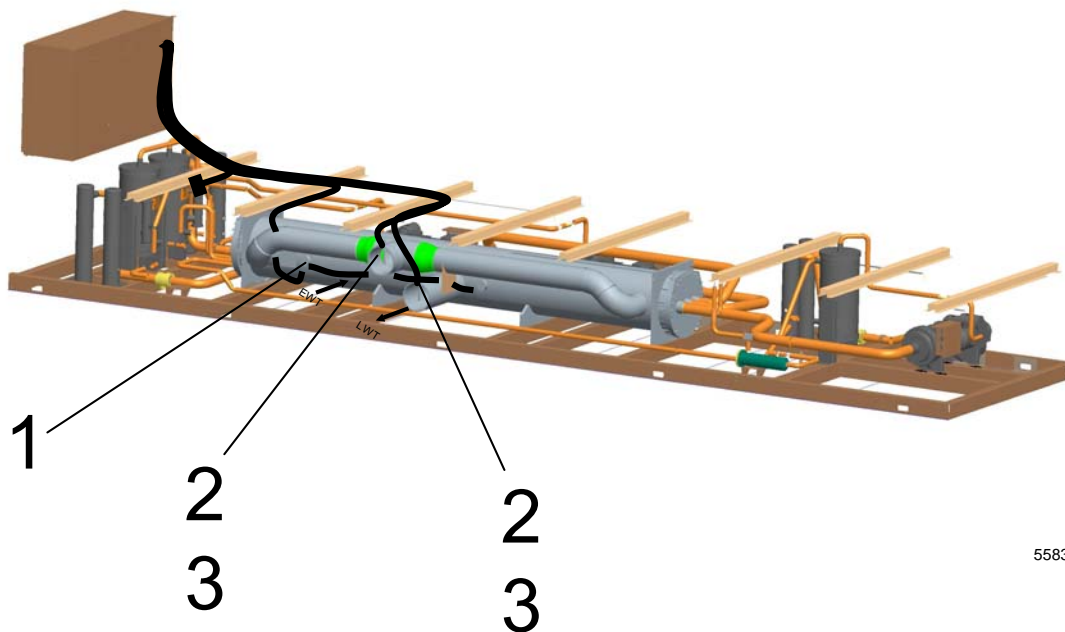
UNIT SENSOR WIRING										
Plug Detail	Plug and Pin P/N	Plug "P" No.	Plug Pin No.	Wire Color	Cable #	Function	Harness Assembly Part Number			
	Plug = 025-21192-000  Pin = 025-19673-000	P25	1	Black	1	Leaving Water Temperature	575-54455-333 (3 Compressor Units) 575-54455-379 (4 Compressor Units)			
			2	Red						
			3	Drain						
						4	Black	2	Entering Water Temperature	575-54455-334 (3 Compressor Units) 575-54455-380 (4 Compressor Units)
						5	Red			
						6	Drain			
						7	Black	3	Outside Air Temperature	575-54455-314
						8	Red			
						9	Drain			

UNIT CONTROL WIRING							
Plug Detail	Plug and Pin P/N	Plug "P" No.	Plug Pin No.	Wire Number	Cable #	Function	Harness Assembly Part Number
	Plug = 025-21417-000  Pin = 025-20919-000	P36	1	2	24	Cooler Heater	575-54455-225 (3 Compressor Units) 575-54455-238 (4 Compressor Units)
			2	29			
			3	34			
						4	Ground

# TRANSDUCERS AND TEMP SENSORS



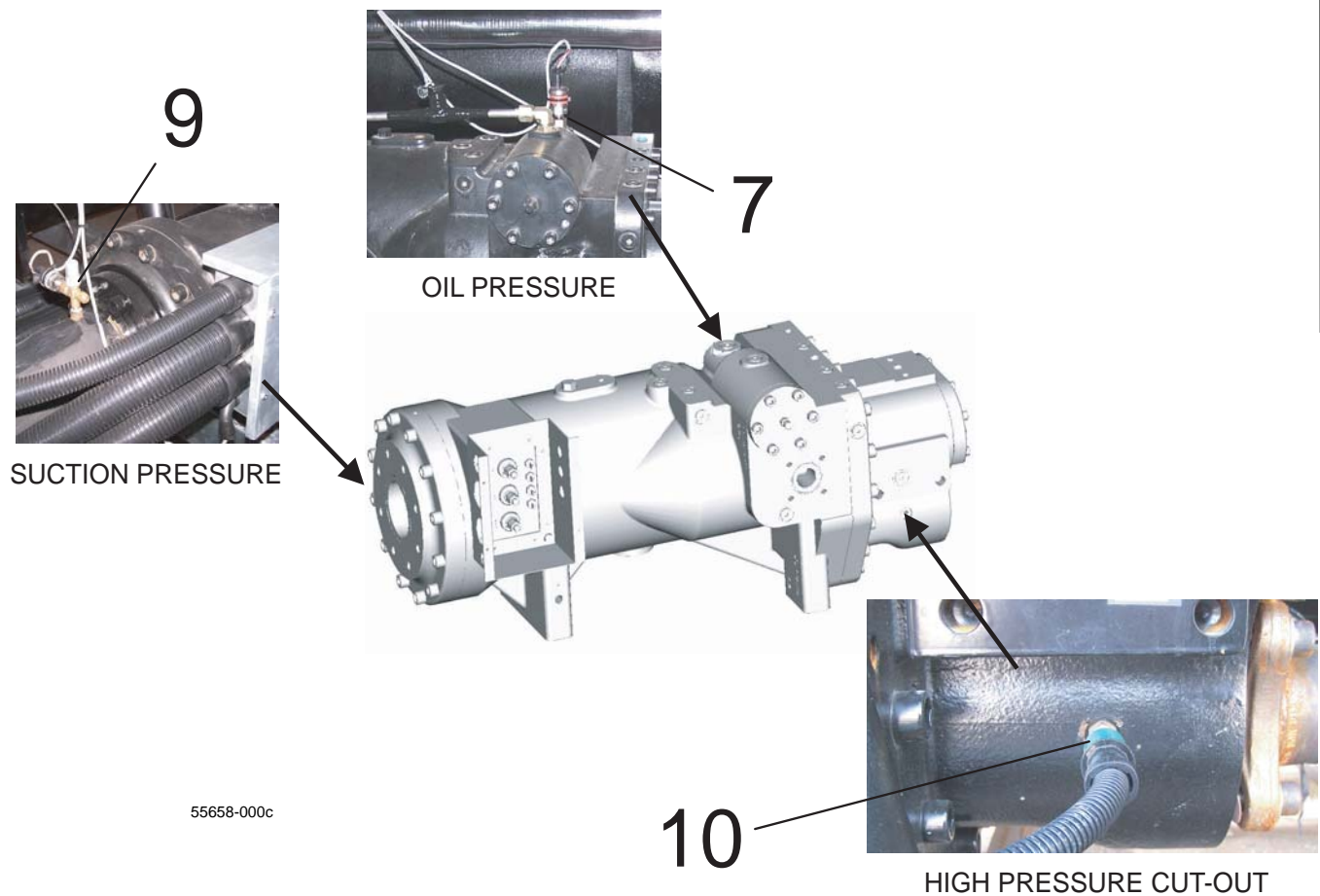
55832-000D-1a



55832-000A-1

FIG. 13 – TRANSDUCERS AND TEMP SENSORS (REF. TABLE 13, PAGE 67)

## TRANSDUCERS AND TEMP SENSORS (CONT'D)



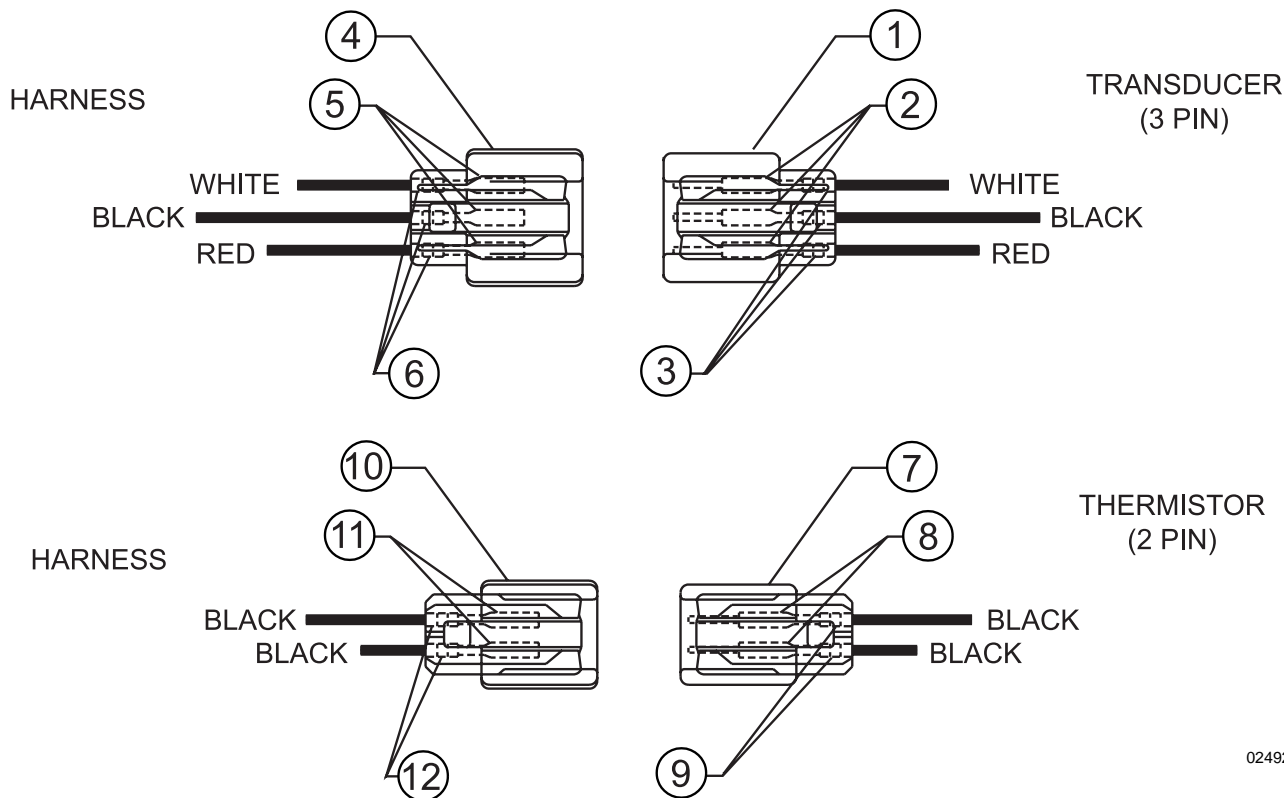
**FIG. 13A – TRANSDUCERS AND HIGH PRESSURE CUT-OUT (REF. TABLE 13)**

**TABLE 13 – TRANSDUCERS, TEMP SENSORS AND HIGH PRESSURE CUT-OUT SWITCH (SEE FIGS. 13 AND 13A, PAGES 66 AND 67)**

Item #	Quantity	Description	Volt-age Code	Part Number
1 <sup>S</sup>	1	Sensor, Outside Air Temperature	All	025-28663-001
2 <sup>S</sup>	2	Sensor, Water Temp. (EWT, LWT)	All	025-40334-000
3	-	Compound, Heat Conductive	All	013-00898-000
4 <sup>S</sup>	2 per system	Sensor, Discharge Temperature	All	025-32924-000
5 <sup>S</sup>	1 per system	Sensor, Suction Temperature	All	025-28935-000
6 <sup>S</sup>	1 per system	Sensor, Oil Temperature	All	025-30440-000
7 <sup>S</sup>	1 per system	Transducer, Oil Pressure (0-275psi)	All	025-29139-003
8 <sup>S</sup>	1 per system	Transducer, Discharge Pressure (0-275psi)	All	025-29139-003
9 <sup>S</sup>	1 per system	Transducer, Suction Pressure (0-125psi)	All	025-29583-001
10	1 per system	High Pressure Cut Out Switch	All	025-39956-000

<sup>S</sup> Recommended Spare Part

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



02492-2b

**FIG. 14 – TRANSDUCER AND THERMISTOR WIRE HARNESS CONNECTORS - FIELD REPLACEMENT PART NUMBERS (REF. TABLE 14)**

**TABLE 14 – TRANSDUCER AND THERMISTOR WIRE HARNESS CONNECTORS - FIELD REPLACEMENT PART NUMBERS (SEE FIG. 14)**

Item No.	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>s</sup> Recommended Spare Part

# VIBRATION ISOLATORS

**TABLE 15 – VIBRATION ISOLATORS PART NUMBERS**

<b>ONE INCH DEFLECTION SPRING ISOLATOR CROSS REFERENCE</b>				
FOR UNITS WITH <b>ALL</b> POINT LOADS LESS THAN 1404 LBS. (637 KG.)				
<b>WEIGHT RANGE (lbs.)</b>	<b>WEIGHT RANGE (kg.)</b>	<b>VENDOR PART NUMBER</b>	<b>COLOR</b>	<b>YORK PART NUMBER</b>
239 to 384 lbs.	108 to 174 kg.	CIP-B-450	RED	029-24583-002
384 to 639 lbs.	174 to 290 kg.	CIP-B-750	WHITE	029-24583-003
639 to 851 lbs.	290 to 386 kg.	CIP-B-1000	BLUE	029-24583-004
851 to 1064 lbs.	386 to 483 kg.	CIP-B-1250	GRAY	029-24583-005
1064 to 1404 lbs.	483 to 637 kg.	CIP-B-1650	BLACK	029-24583-006
FOR UNITS WITH <b>ANY</b> POINT LOAD ABOVE 1404 LBS. (637 KG.)				
<b>WEIGHT RANGE (lbs.)</b>	<b>WEIGHT RANGE (kg.)</b>	<b>VENDOR PART NUMBER</b>	<b>COLOR</b>	<b>YORK PART NUMBER</b>
Up to 851 lbs.	Up to 386 kg.	CIP-C-1000	BLACK	029-24583-007
851 to 1149 lbs.	386 to 521 kg.	CIP-C-1350	YELLOW	029-24583-008
1149 to 1489 lbs.	521 to 675 kg.	CIP-C-1750	RED W/ BLACK	029-24583-009
1489 to 1786 lbs.	675 to 910 kg.	CIP-C-2100	RED W/ YELLOW	029-24583-010
1786 to 2028 lbs.	910 to 920 kg.	CIP-C-2385	GREEN W/ YELLOW	029-24583-011
2028 to 2254 lbs.	920 to 1022 kg.	CIP-C-2650	RED W/ RED	029-24583-012
2254 to 2936 lbs.	1022 to 1332 kg.	CIP-C-2935	GREEN W/ RED	029-24583-013

<b>NEOPRENE ISOLATOR CROSS REFERENCE</b>				
<b>WEIGHT RANGE (lbs.)</b>	<b>WEIGHT RANGE (kg.)</b>	<b>VENDOR PART NUMBER</b>	<b>COLOR</b>	<b>YORK PART NUMBER</b>
Up to 751 lbs.	Up to 341 kg.	ND-C	YELLOW	029-24584-001
751 to 1651 lbs.	341 to 749 kg.	ND-D	YELLOW	029-24584-002
1651 to 3226 lbs.	749 to 1463 kg.	ND-DS	YELLOW	029-24584-004

<b>TWO INCH DEFLECTION, SEISMIC SPRING ISOLATOR CROSS REFERENCE</b>				
<b>WEIGHT RANGE (lbs.)</b>	<b>WEIGHT RANGE (kg.)</b>	<b>VENDOR PART NUMBER</b>	<b>COLOR</b>	<b>YORK PART NUMBER</b>
Up to 358 lbs.	Up to 162 kg.	SLRS-2-C2-420	RED	029-24585-006
358 to 443 lbs.	162 to 201 kg.	SLRS-2-C2-520	WHITE	029-24585-007
443 to 582 lbs.	201 to 264 kg.	SLRS-2-C2-660	BLACK	029-24585-008
582 to 783 lbs.	264 to 335 kg.	SLRS-2-C2-920	BLUE	029-24585-009
783 to 1038 lbs.	335 to 471 kg.	SLRS-2-C2-1220	GREEN	029-24585-010
1038 to 1497 lbs.	471 to 679 kg.	SLRS-2-C2-1760	GRAY	029-24585-011
1497 to 2058 lbs.	679 to 933 kg.	SLRS-2-C2-2420	SILVER	029-24585-012
2058 to 2619 lbs.	933 to 1188 kg.	SLRS-2-C2-3080	GRAY W/ RED	029-24585-013
2619 to 3180 lbs.	1188 to 1442 kg.	SLRS-2-C2-3740	SILVER W/ RED	029-24585-014

# YCAV CHILLER OPTIONS

**TABLE 16 – FIELD INSTALLED OPTIONS PART NUMBERS**

MODEL NUMBER YCAV	STANDARD 150# FLOW SWITCH	OPTIONAL 300# FLOW SWITCH	CHICAGO RELIEF VALVE KIT (60 Hz ONLY)	WELD FLANGE KIT	VICTAULIC FLANGE KIT	DIFFERENTIAL PRESSURE SWITCH
MODEL #	024-26116	024-12144	375-	023-02366	023-19201	025-30919
0267 / 0969	-000	-000	65084-000	-000	-000	-000
0287 / 1039						
0307 / 1139						
0327 / 1169						
0357 / 1309						
0397 / 1429						
0417 / 1549						
0457 / 1649						
0477 / 1739						
0507 / 1829						
0527 / 1909						

**Chiller Options**

\*\* NOTE: Champagne Paint Spray Bomb - 013-03355-000.

## ENCLOSURE KIT OPTIONS

**TABLE 17 – ENCLOSURE KIT OPTIONS - FULL KIT PART NUMBERS**

<b>FULL ENCLOSURE KIT PART NUMBERS</b>				
<b>MODEL NUMBER YCAV-</b>	<b>WIRE ENCLOSURE</b>		<b>LOUVERED ENCLOSURE</b>	
	STANDARD EFFICIENCY	HIGH EFFICIENCY	STANDARD EFFICIENCY	HIGH EFFICIENCY
<b>0267 / 0969</b>	N/A	475-57105-014	N/A	475-57097-014
<b>0287 / 1039</b>	475-57105-013	475-57105-015	475-57097-013	475-57097-015
<b>0307 / 1139</b>	475-57105-014	N/A	475-57097-014	N/A
<b>0327 / 1169</b>	N/A	475-57105-016	N/A	475-57097-016
<b>0357 / 1309</b>	475-57105-016	475-57105-018	475-57097-016	475-57097-018
<b>0397 / 1429</b>	475-57105-018	475-57105-020	475-57097-018	475-57097-020
<b>0417 / 1549</b>	475-57105-020	475-57105-022	475-57097-020	475-57097-022
<b>0457 / 1649</b>	475-57105-021	N/A	475-57097-021	N/A
<b>0477 / 1739</b>	475-57105-022	475-57105-024	475-57097-022	475-57097-024
<b>0507 / 1829</b>	475-57105-023	N/A	475-57097-023	N/A
<b>0527 / 1909</b>	475-57105-024	N/A	475-57097-024	N/A

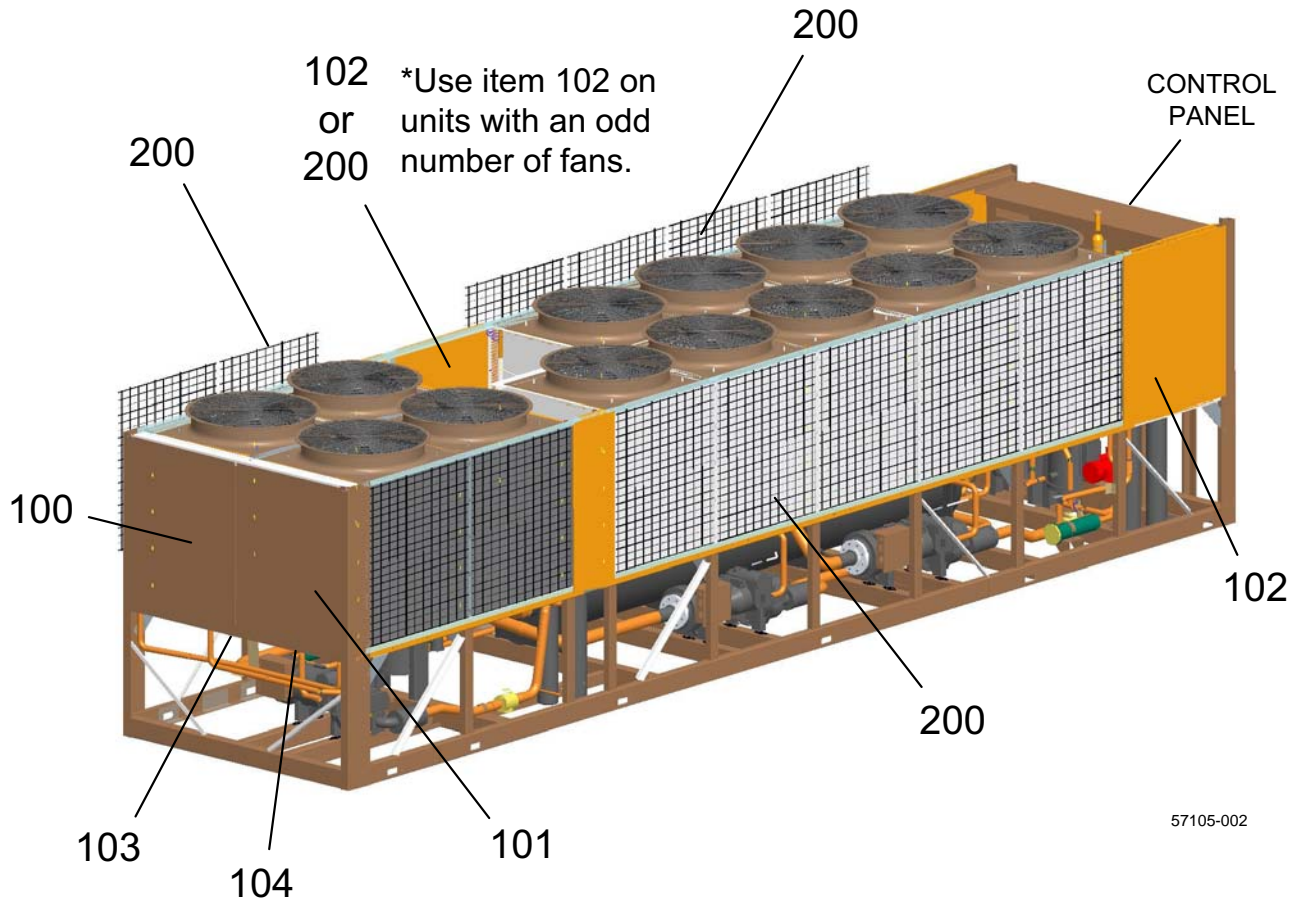
<b>FULL ENCLOSURE KIT PART NUMBERS</b>				
<b>MODEL NUMBER YCAV-</b>	<b>WIRE/LOUVERED ENCLOSURE</b>		<b>LOUVERED ENCLOSURE (COND. ONLY)</b>	
	STANDARD EFFICIENCY	HIGH EFFICIENCY	STANDARD EFFICIENCY	HIGH EFFICIENCY
<b>0267 / 0969</b>	N/A	475-57107-014	N/A	475-57097-140
<b>0287 / 1039</b>	475-57107-013	475-57107-015	475-57097-130	475-57097-150
<b>0307 / 1139</b>	475-57107-014	N/A	475-57097-140	N/A
<b>0327 / 1169</b>	N/A	475-57107-016	N/A	475-57097-160
<b>0357 / 1309</b>	475-57107-016	475-57107-018	475-57097-160	475-57097-180
<b>0397 / 1429</b>	475-57107-018	475-57107-020	475-57097-180	475-57097-200
<b>0417 / 1549</b>	475-57107-020	475-57107-022	475-57097-200	475-57097-220
<b>0457 / 1649</b>	475-57107-021	N/A	475-57097-210	N/A
<b>0477 / 1739</b>	475-57107-022	475-57107-024	475-57107-220	475-57107-240
<b>0507 / 1829</b>	475-57107-023	N/A	475-57107-230	N/A
<b>0527 / 1909</b>	475-57107-024	N/A	475-57107-240	N/A

## ENCLOSURE KIT OPTIONS (CONT'D)

**TABLE 17A – ENCLOSURE KIT OPTIONS - TOP AND BOTTOM SECTIONS**  
(SEE FIGS. 15-18, PAGES 73-77)

ENCLOSURE	FULL KIT NUMBER	TOP SECTION PART NUMBER	BOTTOM SECTION PART NUMBER
WIRE	475-57105-013	375-57105-130	375-57105-131
	475-57105-014	375-57105-140	375-57105-141
	475-57105-015	375-57105-150	375-57105-151
	475-57105-016	375-57105-160	375-57105-161
	475-57105-018	375-57105-180	375-57105-181
	475-57105-020	375-57105-200	375-57105-201
	475-57105-021	375-57105-210	375-57105-211
	475-57105-022	375-57105-220	375-57105-221
	475-57105-023	375-57105-230	375-57105-231
	475-57105-024	375-57105-240	375-57105-241
LOUVERED	475-57097-013	375-57097-130	375-57097-131
	475-57097-014	375-57097-140	375-57097-141
	475-57097-015	375-57097-150	375-57097-151
	475-57097-016	375-57097-160	375-57097-161
	475-57097-018	375-57097-180	375-57097-181
	475-57097-020	375-57097-200	375-57097-201
	475-57097-021	375-57097-210	375-57097-211
	475-57097-022	375-57097-220	375-57097-221
	475-57097-023	375-57097-230	375-57097-231
	475-57097-024	375-57097-240	375-57097-241
WIRE/ LOUVERED	475-57107-013	375-57097-130	375-57105-131
	475-57107-014	375-57097-140	375-57105-141
	475-57107-015	375-57097-150	375-57105-151
	475-57107-016	375-57097-160	375-57105-161
	475-57107-018	375-57097-180	375-57105-181
	475-57107-020	375-57097-200	375-57105-201
	475-57107-021	375-57097-210	375-57105-211
	475-57107-022	375-57097-220	375-57105-221
	475-57107-023	375-57097-230	375-57105-231
	475-57107-024	375-57097-240	375-57105-241
LOUVERED ENCLOSURE (COND. ONLY)	475-57097-130	375-57097-130	N/A
	475-57097-140	375-57097-140	
	475-57097-150	375-57097-150	
	475-57097-160	375-57097-160	
	475-57097-180	375-57097-180	
	475-57097-200	375-57097-200	
	475-57097-210	375-57097-210	
	475-57097-220	375-57097-220	
	475-57097-230	375-57097-230	
	475-57097-240	375-57097-240	

## ENCLOSURE KIT OPTIONS (CONT'D)



**FIG. 15 – WIRE ENCLOSURE (TOP SECTIONS) - 375-57105-130 SHOWN (REF. TABLE 18)**

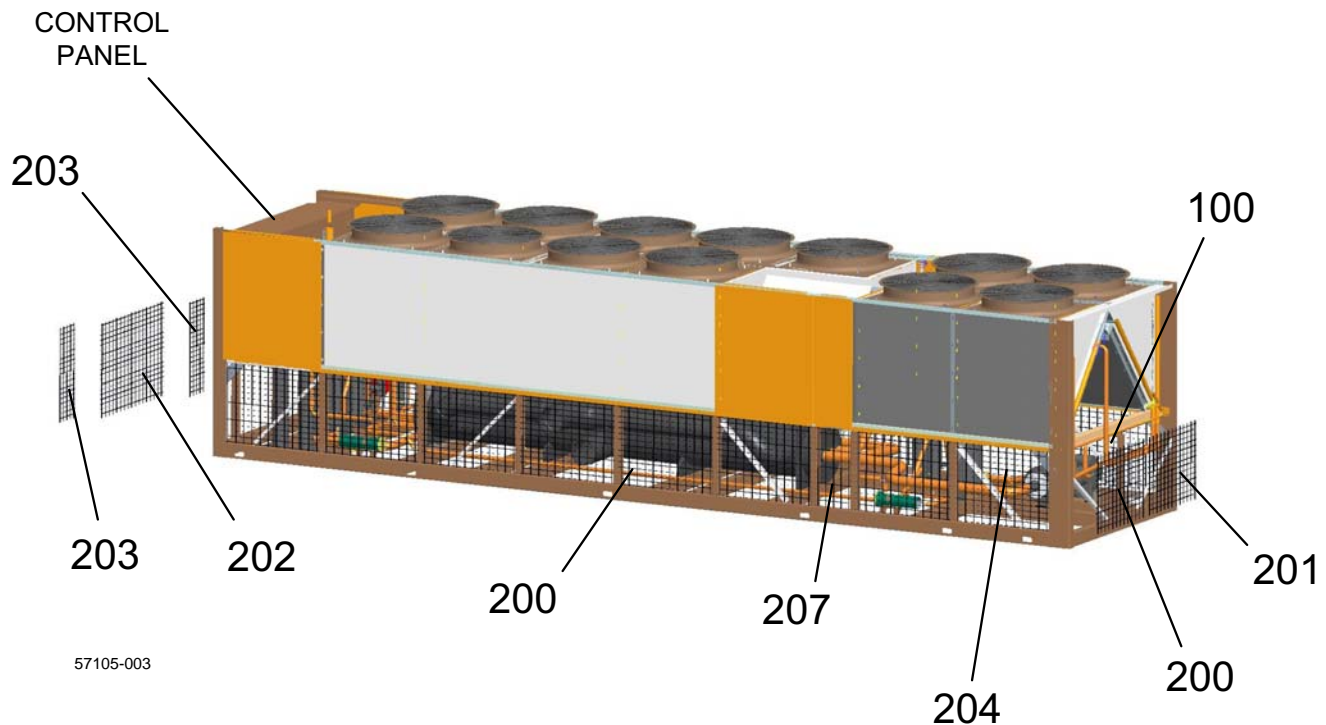
Enclosure Options

**TABLE 18 – WIRE ENCLOSURE (TOP SECTIONS) - (SEE FIG. 15)**

WIRE ENCLOSURE TOP SECTIONS KIT COMPONENTS			
ITEM #	DESCRIPTION	PART NUMBER	QTY
100	END PANEL - LH	075-57085-000	1
101	END PANEL - RH	075-57086-000	1
102	PANEL	075-56977-000	2*
103	CHANNEL	075-62328-000	1
104	PLATE	075-57133-001	1
200	WIRE GRILL CONDENSER	026-41776-000	13**

- \*\* Refer to page 72, Quantity for 375-57105-140 = 14
- \*\* Refer to page 72, Quantity for 375-57105-150 = 15
- \*\* Refer to page 72, Quantity for 375-57105-160 = 16
- \*\* Refer to page 72, Quantity for 375-57105-180 = 18
- \*\* Refer to page 72, Quantity for 375-57105-200 = 20
- \*\* Refer to page 72, Quantity for 375-57105-210 = 21
- \*\* Refer to page 72, Quantity for 375-57105-220 = 22
- \*\* Refer to page 72, Quantity for 375-57105-230 = 23
- \*\* Refer to page 72, Quantity for 375-57105-240 = 24

## ENCLOSURE KIT OPTIONS (CONT'D)



**FIG. 16 – WIRE ENCLOSURE (BOTTOM SECTIONS) - 375-57106-130 SHOWN (REF. TABLE 19)**

**TABLE 19 – WIRE ENCLOSURE (BOTTOM SECTIONS) - (SEE FIG. 16)**

WIRE ENCLOSURE BOTTOM SECTIONS KIT COMPONENTS			
ITEM #	DESCRIPTION	PART NUMBER	QTY
100	REAR SUPPORT	075-62329-000	1
200	WIRE GRILL	026-41777-000	14**
201	WIRE GRILL - REAR	026-41778-000	2
202	WIRE GRILL	026-41779-000	1
203	WIRE GRILL	026-41780-000	2
204	WIRE GRILL	026-42671-000	2
207	WIRE GRILL	026-42672-000	2

\*\* Refer to page 72, Quantity for 375-57106-130 and -140 = 14

\*\* Refer to page 72, Quantity for 375-57106-150 and -160 = 16

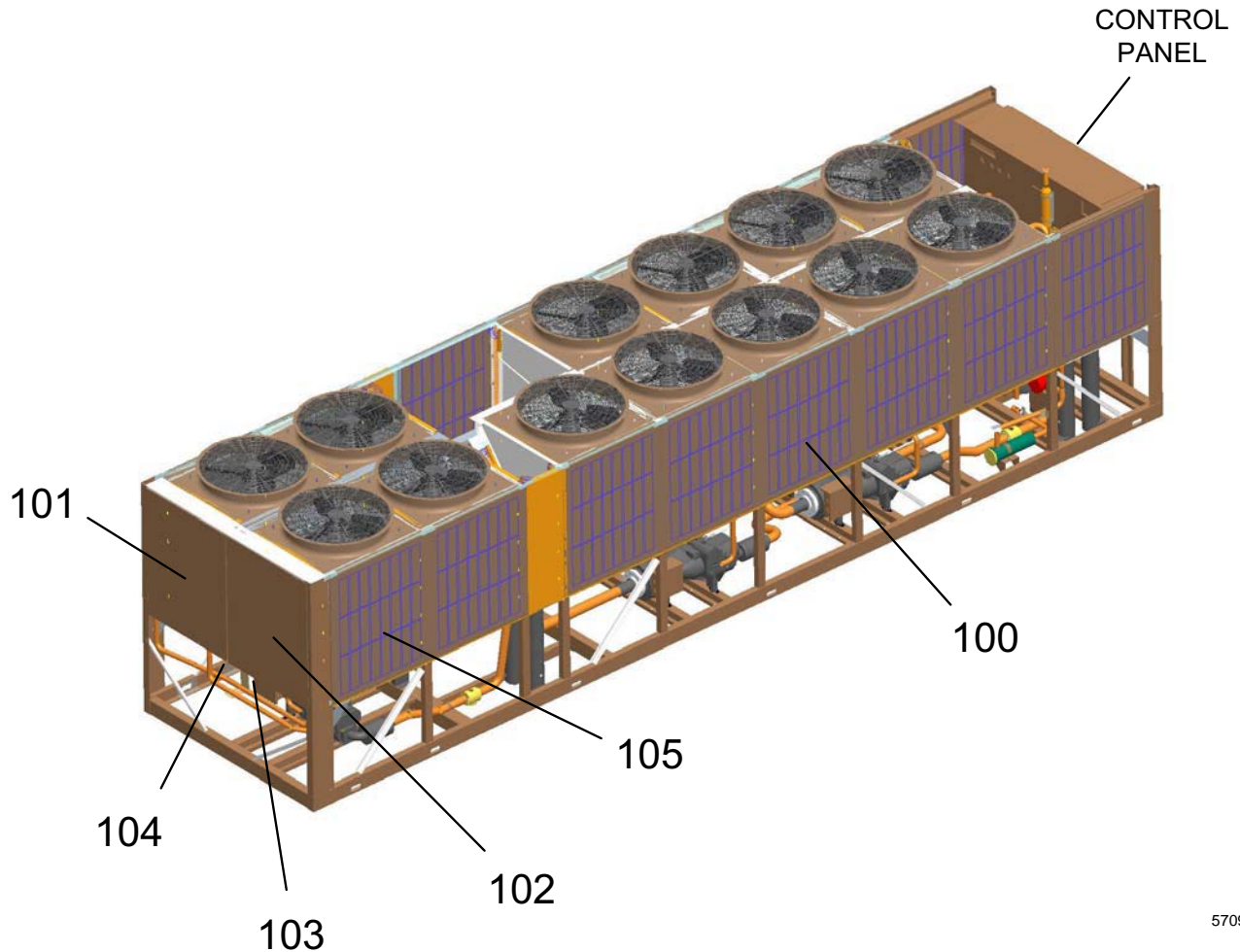
\*\* Refer to page 72, Quantity for 375-57106-180 = 18

\*\* Refer to page 72, Quantity for 375-57106-200 = 22

\*\* Refer to page 72, Quantity for 375-57106-210 and -220 = 24

\*\* Refer to page 72, Quantity for 375-57106-230 and -240 = 26

## ENCLOSURE KIT OPTIONS (CONT'D)



57097-002

Enclosure Options

**FIG. 17 – LOUVERED ENCLOSURE (TOP SECTIONS) - 375-57097-130 SHOWN (REF. TABLE 20)**

**TABLE 20 – LOUVERED ENCLOSURE (TOP SECTIONS) - (SEE FIG. 17)**

LOUVERED ENCLOSURE TOP SECTIONS KIT COMPONENTS			
ITEM #	DESCRIPTION	PART NUMBER	QTY
100	LOUVER PANEL	075-56976-000	14**
101	REAR PANEL - LH	075-57085-000	1
102	REAR PANEL - RH	075-57086-000	1
103	CHANNEL	075-62328-000	1
104	REAR SUPPORT	075-57133-001	1
105	ENCLOSURE PANEL	075-61589-000	2

\*\* Refer to page 72, Quantity for 375-57097-130 and -140 = 14

\*\* Refer to page 72, Quantity for 375-57097-150 and -160 = 16

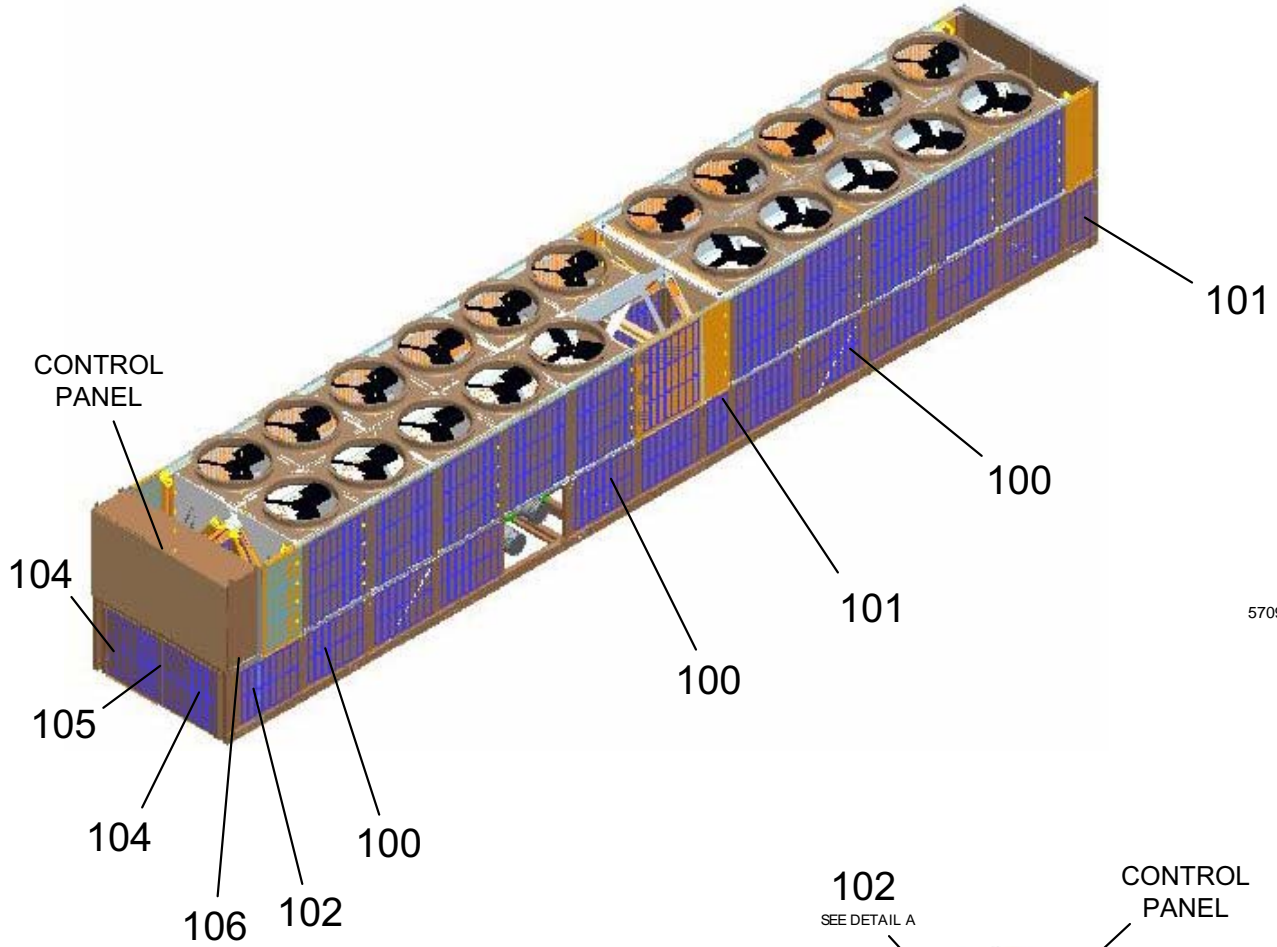
\*\* Refer to page 72, Quantity for 375-57097-180 = 18

\*\* Refer to page 72, Quantity for 375-57097-200 = 20

\*\* Refer to page 72, Quantity for 375-57097-210 and -220 = 22

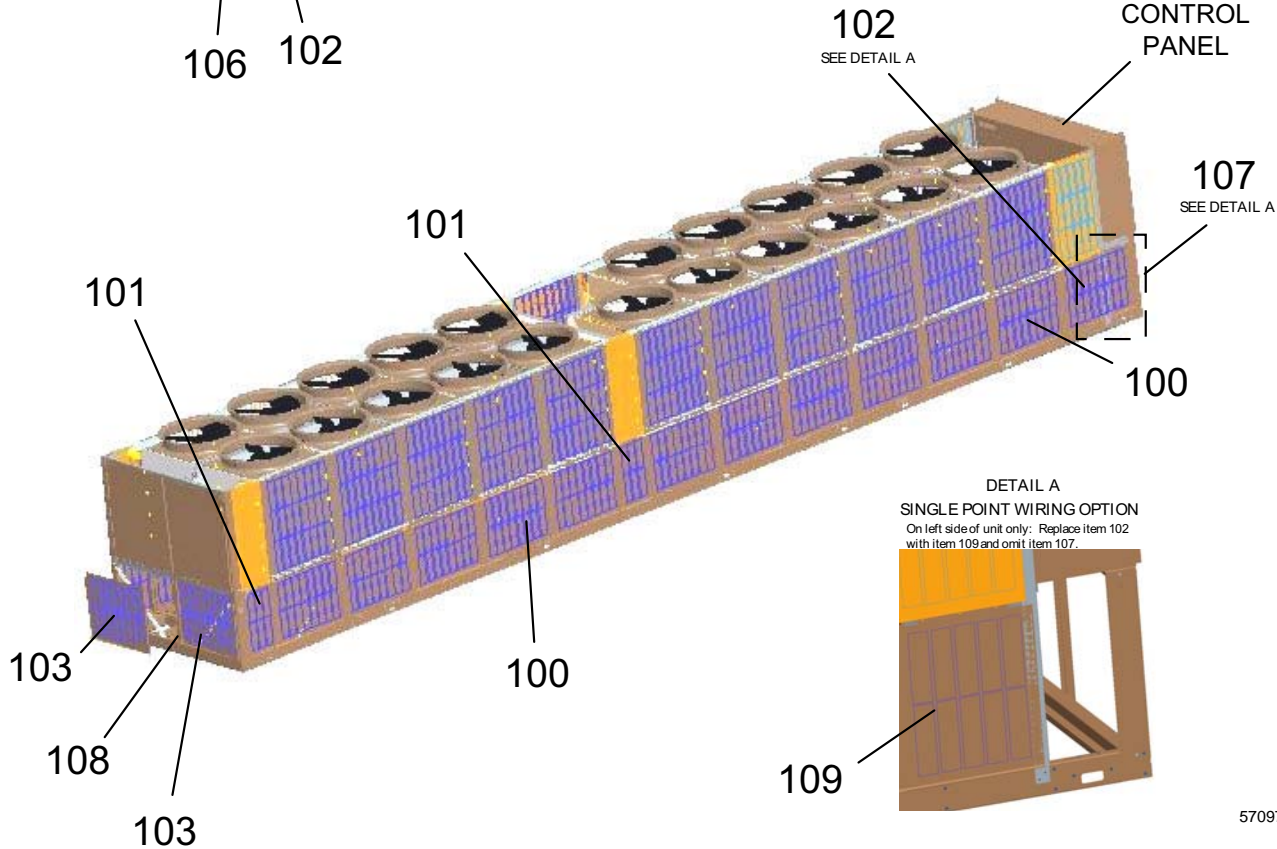
\*\* Refer to page 72, Quantity for 375-57097-230 and -240 = 24

# ENCLOSURE KIT OPTIONS (CONT'D)



57097-005

Enclosure Options



57097-005a

**FIG. 18 – LOUVERED ENCLOSURE (BOTTOM SECTIONS)  
375-57097-022 SHOWN (REF. TABLE 21, PAGE 77)**

## ENCLOSURE KIT OPTIONS (CONT'D)

**TABLE 21 – LOUVERED ENCLOSURE (BOTTOM SECTIONS)**  
(SEE FIG. 18, PAGE 76)

<b>LOUVERED ENCLOSURE BOTTOM SECTIONS KIT COMPONENTS</b>			
<b>ITEM #</b>	<b>DESCRIPTION</b>	<b>PART NUMBER</b>	<b>QTY</b>
<b>100</b>	LOUVER PANEL	075-56978-000	13**
<b>101</b>	LOUVER PANEL (3 Compressor Units)	075-61586-000	2
	LOUVER PANEL (4 Compressor Units)		4
<b>102</b>	LOUVER PANEL (3 Compressor Units)	075-61588-000	2
	LOUVER PANEL (4 Compressor Units)	075-61592-000	
<b>103</b>	LOUVER PANEL	075-56981-000	2
<b>104</b>	LOUVER PANEL (3 Compressor Units)	075-57101-000	2
	LOUVER PANEL (4 Compressor Units)	075-61585-000	
<b>105</b>	LOUVER PANEL (3 Compressor Units)	075-57102-000	1
	LOUVER PANEL (4 Compressor Units)	075-61578-000	
<b>106</b>	COVER PANEL	075-61590-000	1
<b>107</b>	COVER PANEL	075-61591-000	1
<b>108</b>	REAR SUPPORT	075-56979-000	1
<b>109</b>	LOUVER PANEL - FRONT	075-57104-000	1

\*\* Refer to page 72, Quantity for 375-57097-130 and -140 = 13

\*\* Refer to page 72, Quantity for 375-57097-150 and -160 = 15

\*\* Refer to page 72, Quantity for 375-57097-180 = 17

\*\* Refer to page 72, Quantity for 375-57097-200 = 19

\*\* Refer to page 72, Quantity for 375-57097-210 and -220 = 21

\*\* Refer to page 72, Quantity for 375-57097-230 and -240 = 23

# RECOMMENDED SPARE PARTS

York Model YCAV Style A Air Cooled Screw Chillers  
Suggested Spare Parts List for Critical Duty Applications

**TABLE 26 – RECOMMENDED SPARE PARTS - YCAV0267/0969-YCAV0527/1909 CHILLERS**

PAGE REF. & ITEM NUMBER	DESCRIPTION	MODEL NUMBER YCAV	PART NUMBER
Page 16, Item 1	Fan Motor (Standard)	-17	024-27322-007
		-28	
		-40	
		-46	
		-50	
		-58	
Page 16, Item 1	Fan Motor (Low Noise)	-17	024-34980-001
		-28	
		-40	
		-46	
		-50	
		-58	
Page 16, Item 2	Fan Blade (Standard)	All	026-41594-000
	Fan Blade (Low Noise)	All	026-41942-000
Pages 20, 21, 26 and 27, Item 1	Valve, Control (Feed or Drain)	See Table 4	025-39688-000
Pages 20, 21, 26 and 27, Item 5	Core, Dehydrator	All	026-37540-000
Pages 20, 21, 26 and 27, Item 18	Sensor, Refrig Level	All	025-40274-000
Page 31, Item 10	Cap, Radiator	All	023-21927-000
Page 31, Item 13	Coolant Propylene Glycol (5 gallon)	All	013-03345-000
Page 32, Item OIL	Oil, Compressor (Type 'L')	R-134A	011-00591-000
Page 44, Item 22	VSD Logic Board	All	031-02477-000
Page 44, Item 31	Control Board (3 Compressor Units)	All	031-02478-001
	Control Board (4 Compressor Units)		031-02478-002
Page 44, Item 39	EPROM - U36	All	031-02521-001
Page 45, Item 41	EPROM - U39	All	031-02522-001
Page 45, Item 44	Controller, Valve	All	031-02510-000
Page 61, Item 1	Sensor, Outside Air Temperature	All	025-28663-001
Page 67, Item 2	Sensor, Water Temp. (EWT, LWT)	All	025-40334-000
Page 67, Item 4	Sensor, Discharge Temperature	All	025-32924-000
Page 67, Item 5	Sensor, Suction Temperature	All	025-28935-000
Page 67, Item 6	Sensor, Oil Temperature	All	025-30440-000
Page 67, Item 7 and 8	Transducer, Discharge & Oil Pressure (0-275psi)	All	025-29139-003
Page 67, Item 9	Transducer, Suction Pressure (0-275psi)	All	025-29583-001

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

# NOTES



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Form 201.21-RP3 (606)  
New Release

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