



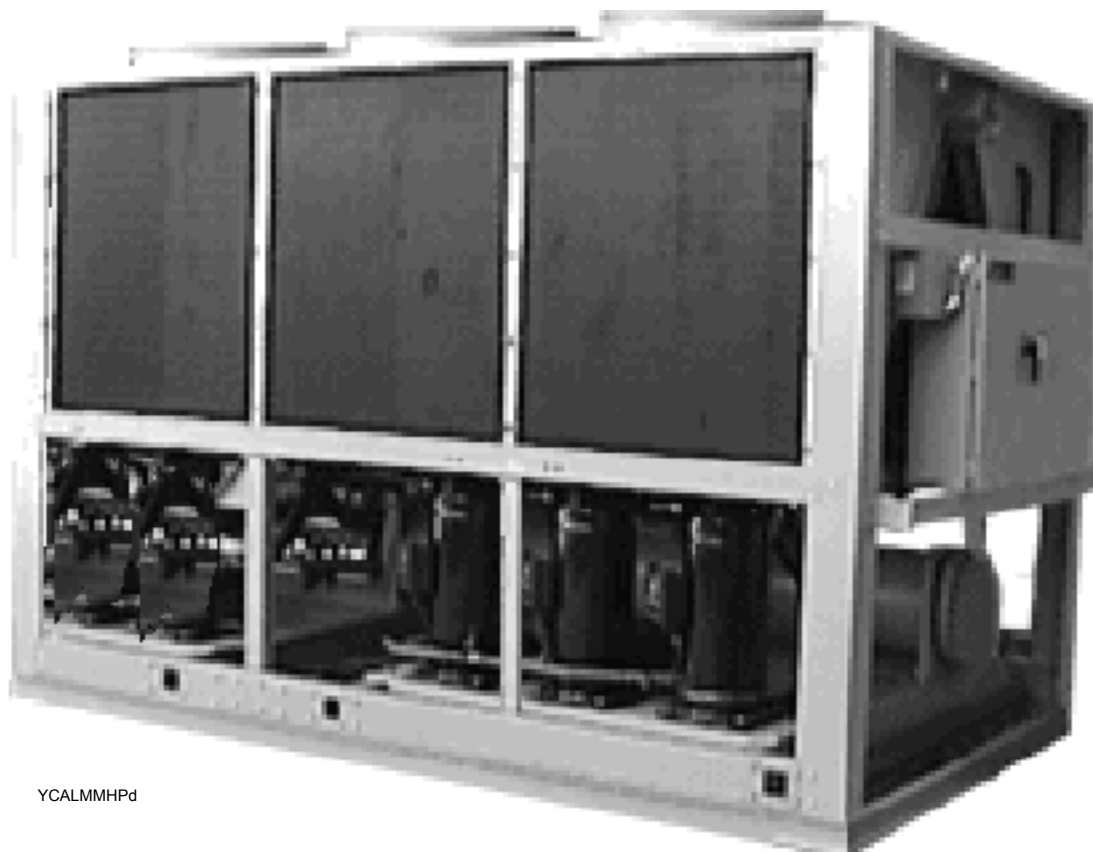
**AIR-COOLED CONDENSING UNIT
HERMETIC SCROLL**

RENEWAL PARTS

Supercedes: NONE

Form: 150.64-RP2 (105)

**MODELS YCAL0287, 0317, 0347 and YCAL0377
STYLE "C"**



YCALMMHPd



90 - 135 TON
270 - 457Kw
50 Hz



380/415-3-50
MODELS ONLY

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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.

UNIT NOMENCLATURE NAMEPLATE ENGINEERING DATA

BASIC PART NUMBER

YCAL0347EC50XCA

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		#	#	#	#	E	C	5	0		C	A
: YORK : Chiller : Air Cooled : Scroll				Tons/Kw 0287 0317 0347 0377				High Efficiency	:R-22 :R-407C	:380-415/3/50 X :Across the Line			:Design Series C : :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
X : Standard Power Option M D : MP NF Disconnect Switch M B : MP w/ Ind. Sys. Brkr. S B : SP TB w/ Ind. Sys. Brkr. D B : SP NF Disconnect Switch X : No Transformer Required T : Transformer 115/24V (factory) Q : Special Transformer Required X : No Power Factor Capacitor C : Power Factor Capacitor Q : Special Power Factor Capacitor	X H G : No Ambient Kit T : High Ambient Kit (factory) S F G I : High Ambient Kit (field) L : BAS/EMS Temp. Reset / Offset N : Spanish LCD & Keypad Display T : French LCD & Keypad Display C : German LCD & Keypad Display O : Italian LCD & Keypad Display S : N. American Safety Code (cU.L./cETL) T : No Listing (typically 50 HZ non-CE, non-U.L.) C : Suction Temp Sensor O : Motor Current Module S : OptiView Remote Panel S : Sequence Control & Automatic Lead Transfer	# T S : Low Temp. Brine (LBrT) C S B : Thermal Storage E : Chicago Relief Code 1 : Service Isolation Valve X : Both Chicago & Isolat. 1 : Elec. Exp. Valve X : Hot Gas By-Pass (# circuits) X : Heater (Standard)

MP = Multiple Point
SP = Single Point
NF = Non-Fused
TB = Terminal Block
Ser. = Service
Ind. Sys. Brkr. & L. Ext. Handles = Individual System Breaker & Lockable External Handle

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

55 EXTENDED FIELD WARRANTY

X : 1st Year Parts Only
 B : 1st Year Parts & Labor
 C : 2nd Year Parts Only
 D : 2nd Year Parts & Labor
 E : 5 Year Compressor Parts Only
 F : 5 Year Compressor Parts & Labor Only
 G : 5 Year Units Parts Only
 H : 5 Year Unit Parts & Labor

56 REFRIGERANT WARRANTY

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

61 PLANT OF MANUFACTURE

R : Monterrey

NOTES:

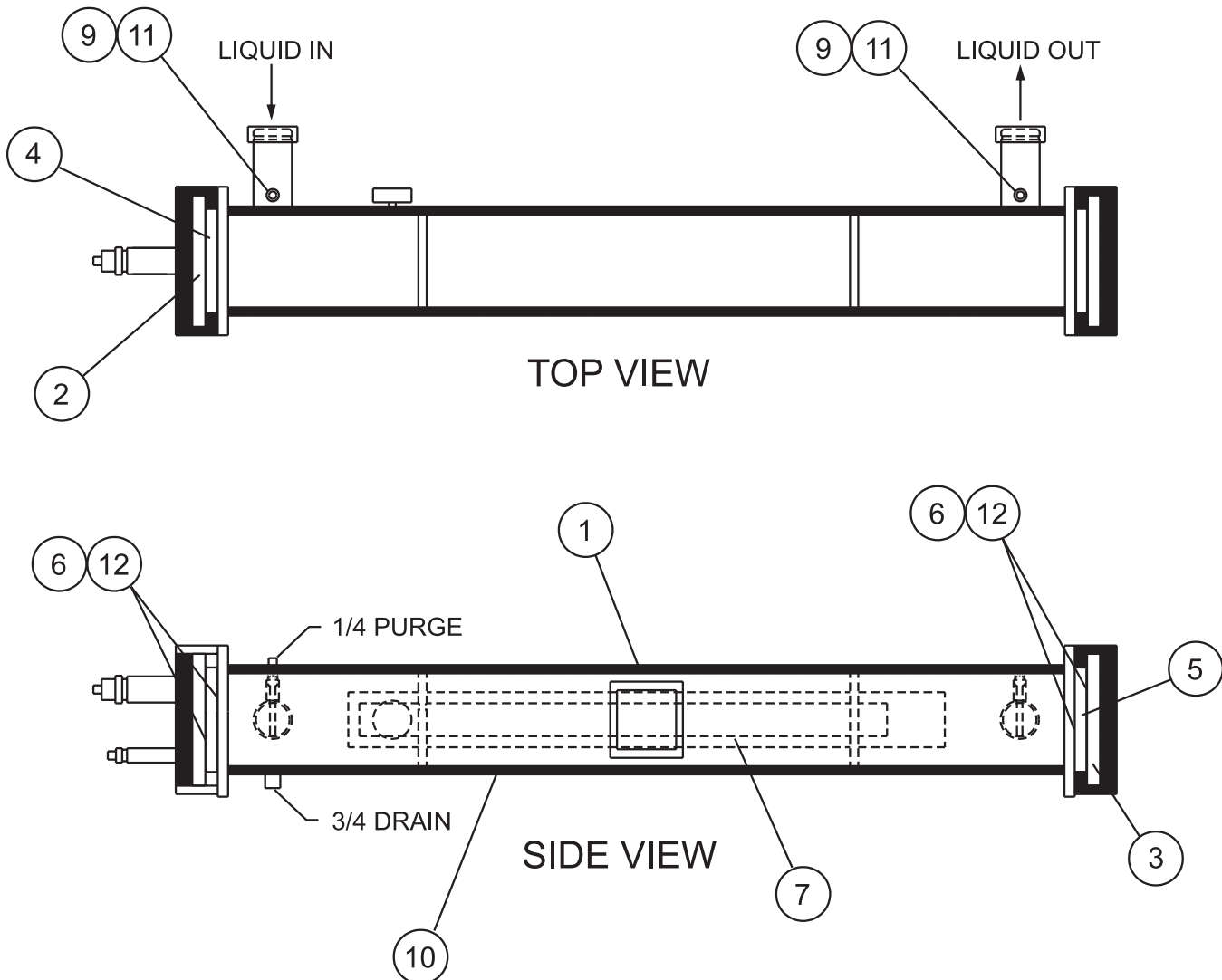
1. Q : DENOTES SPECIAL / S.Q.
2. # : DENOTES STANDARD
3. X : w/in OPTIONS FIELD, DENOTES NO OPTION SELECTED
4. Agency Files (i.e. U.L. / ETL; CE; ARI; ETC.) will contain info. based on the first 14 characters only.
5. Plant of manufacture to include PIN 56 upon entering the chiller order.

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



30968-000

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, PAGE 5 AND 6)

EVAPORATOR COMPONENTS (CONT'D)

TABLE 1 – EVAPORATOR COMPONENTS - 150 PSIG (SEE FIG. 1, PAGE 4)

ITEM NUMBER	QTY PER UNIT	DESCRIPTION	DWP	UNIT MODEL YCAL0287	UNIT MODELS YCAL0317 AND YCAL0347
1	1	Cooler, less Heater & Insulation	ALL	375-46542-000	375-46535-000
2	1	Head, Connection End	ALL	375-46210-000	375-44348-000
3	1	Head, Back End	ALL	075-46215-000	075-44321-000
4	1	Baffle, Connection End	ALL	375-46209-000	375-44338-000
5	1	Baffle, Back End	ALL	075-46208-000	375-44337-000
6	4	Gasket, Baffle and Head	ALL	075-49361-000	075-49365-000
7	-	Heater, Cooler 180 Watt	ALL	N/A	N/A
	2	Heater, Cooler 280 Watt		N/A	025-22691-000
	2	Heater, Cooler 420 Watt		025-22692-000	N/A
9	2	Well, Thermo	ALL	026-32328-000	026-32328-000
10	-	Insulation (3/4"x49"x65")	ALL	010-05997-000	010-05997-000
	-	Insulation (1 1/2"x49"x65")		010-05998-000	010-05998-000
11	2	Sensor, Water Temperature	ALL	025-29964-000	025-29964-000
12	1	Adhesive (Use with #6)	ALL	013-03311-000	031-03311-000

TABLE 1 (CONT'D) – EVAPORATOR COMPONENTS - 150 PSIG (SEE FIG. 1, PAGE 4)

ITEM NUMBER	QTY PER UNIT	DESCRIPTION	DWP	UNIT MODEL YCAL0377
1	1	Cooler, less Heater & Insulation	ALL	375-46251-000
2	1	Head, Connection End	ALL	375-46257-000
3	1	Head, Back End	ALL	075-46262-000
4	1	Baffle, Connection End	ALL	375-46256-000
5	1	Baffle, Back End	ALL	075-46255-000
6	4	Gasket, Baffle and Head	ALL	075-49360-000
7	1	Heater, Cooler 180 Watt	ALL	025-22690-000
	1	Heater, Cooler 280 Watt		025-22691-000
9	2	Well, Thermo	ALL	026-33627-000
10	-	Insulation (3/4"x49"x65")	ALL	010-05997-000
	-	Insulation (1 1/2"x49"x65")		010-05998-000
11	2	Sensor, Water Temperature	ALL	025-29964-000
12	1	Adhesive (Use with #6)	ALL	013-03311-000

EVAPORATOR COMPONENTS (CONT'D)

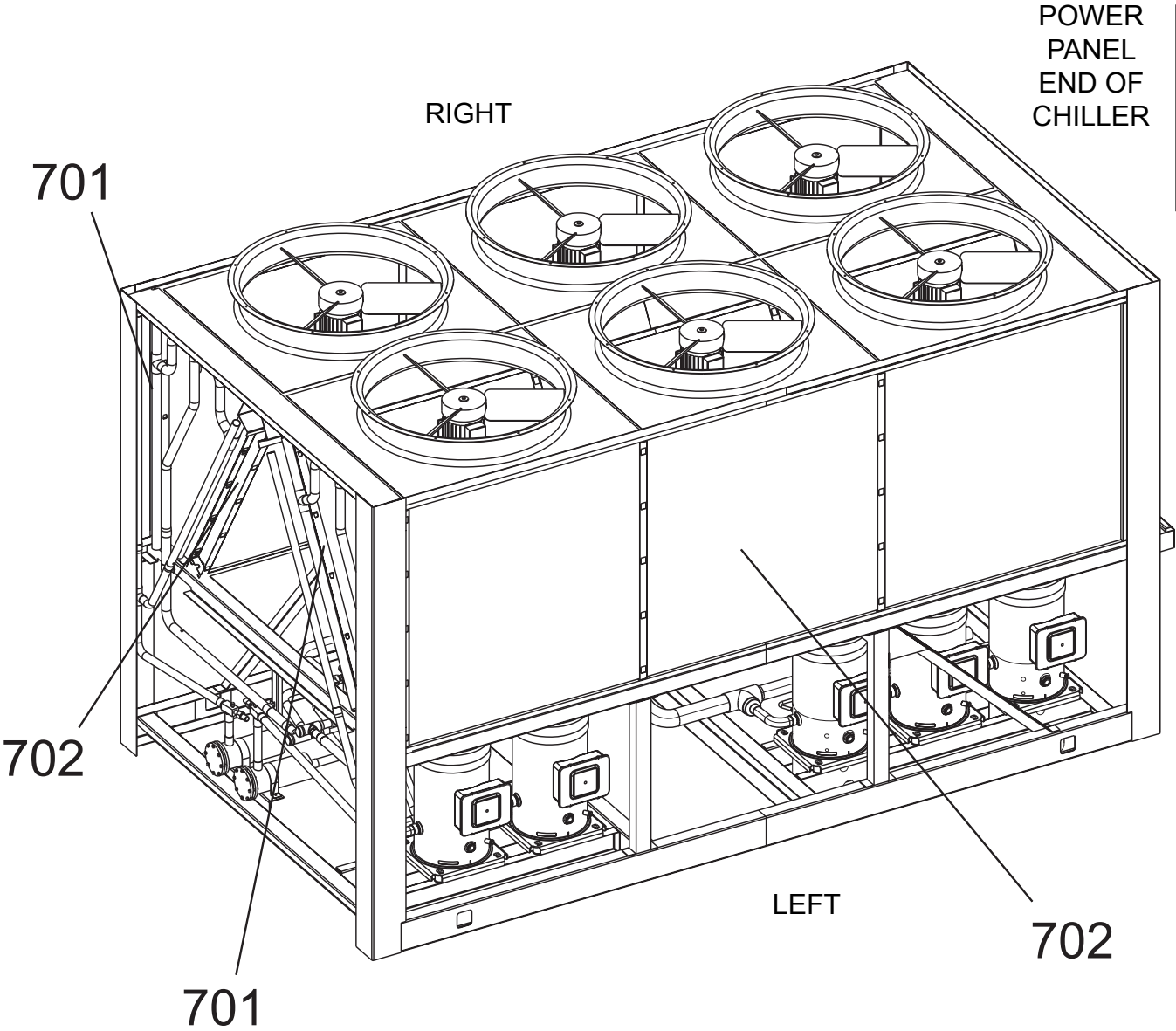
TABLE 1A – EVAPORATOR COMPONENTS - 300 PSIG (SEE FIG. 1, PAGE 4)

ITEM NUMBER	QTY PER UNIT	DESCRIPTION	DWP	UNIT MODEL YCAL0287	UNIT MODELS YCAL0317 AND YCAL0347
1	1	Cooler, less Heater & Insulation	ALL	375-46571-000	375-46567-000
2	1	Head, Connection End	ALL	375-46210-000	375-44348-000
3	1	Head, Back End	ALL	075-46215-000	075-44321-000
4	1	Baffle, Connection End	ALL	375-46209-000	375-44338-000
5	1	Baffle, Back End	ALL	075-46208-000	375-44337-000
6	4	Gasket, Baffle and Head	ALL	075-49361-000	075-49365-000
7	-	Heater, Cooler 180 Watt	ALL	N/A	N/A
	2	Heater, Cooler 280 Watt		N/A	025-22691-000
	2	Heater, Cooler 420 Watt		025-22692-000	N/A
9	2	Well, Thermo	ALL	026-32328-000	026-32328-000
10	-	Insulation (3/4"x49"x65")	ALL	010-05997-000	010-05997-000
	-	Insulation (1 1/2"x49"x65")		010-05998-000	010-05998-000
11	2	Sensor, Water Temperature	ALL	025-29964-000	025-29964-000
12	1	Adhesive (Use with #6)	ALL	013-03311-000	031-03311-000

TABLE 1A (CONT'D) – EVAPORATOR COMPONENTS - 300 PSIG (SEE FIG. 1, PAGE 4)

ITEM NUMBER	QTY PER UNIT	DESCRIPTION	DWP	UNIT MODEL YCAL0377
1	1	Cooler, less Heater & Insulation	ALL	375-46579-000
2	1	Head, Connection End	ALL	375-46257-000
3	1	Head, Back End	ALL	075-46262-000
4	1	Baffle, Connection End	ALL	375-46256-000
5	1	Baffle, Back End	ALL	075-46255-000
6	4	Gasket, Baffle and Head	ALL	075-49360-000
7	1	Heater, Cooler 180 Watt	ALL	025-22690-000
	1	Heater, Cooler 280 Watt		025-22691-000
9	2	Well, Thermo	ALL	026-33627-000
10	-	Insulation (3/4"x49"x65")	ALL	010-05997-000
	-	Insulation (1 1/2"x49"x65")		010-05998-000
11	2	Sensor, Water Temperature	ALL	025-29964-000
12	1	Adhesive (Use with #6)	ALL	013-03311-000

CONDENSER COIL COMPONENTS



45618-0b

FIG. 2 – CONDENSER COIL COMPONENTS - YCAL0347 & YCAL0377 SHOWN
(REF. TABLE 2, PAGE 8)

CONDENSER COIL COMPONENTS

TABLE 2 – CONDENSER COIL COMPONENTS (SEE FIG. 2, PAGE 6)

ITEM NUMBER	DESCRIPTION	POSI- TION**	QTY	YCAL0287	YCAL0317
ALUMINUM FIN COILS					
701	Coil Module*	RH	2	375-44501-001	375-44501-001
702		LH	2	375-44501-002	375-44501-002
BLACK FIN COILS					
701	Coil Module*	RH	2	375-45623-001	375-45623-001
702		LH	2	375-45623-002	375-45623-002
PHENOLIC COILS					
701	Coil Module*	RH	2	375-45626-001	375-45626-001
702		LH	2	375-45626-002	375-45626-002
COPPER COILS					
701	Coil Module*	RH	2	375-45629-001	375-45629-001
702		LH	2	375-45629-002	375-45629-002

***Note:** Coil Module includes coil and headers.

****Note:** Coils for each circuit are denoted left and right as viewed from the power panel end of chiller.

TABLE 2 (CONT'D) – CONDENSER COIL COMPONENTS (SEE FIG. 2, PAGE 6)

ITEM NUMBER	DESCRIPTION	POSITION**	QTY	YCAL0347	YCAL0377
ALUMINUM FIN COILS					
701	Coil Module*	RH	2	375-45619-001	375-45619-001
702		LH	2	375-45619-002	375-45619-002
BLACK FIN COILS					
701	Coil Module*	RH	2	375-45624-001	375-45624-001
702		LH	2	375-45624-002	375-45624-002
PHENOLIC COILS					
701	Coil Module*	RH	2	375-45627-001	375-45627-001
702		LH	2	375-45627-002	375-45627-002
COPPER COILS					
701	Coil Module*	RH	2	375-45630-001	375-45630-001
702		LH	2	375-45630-002	375-45630-002

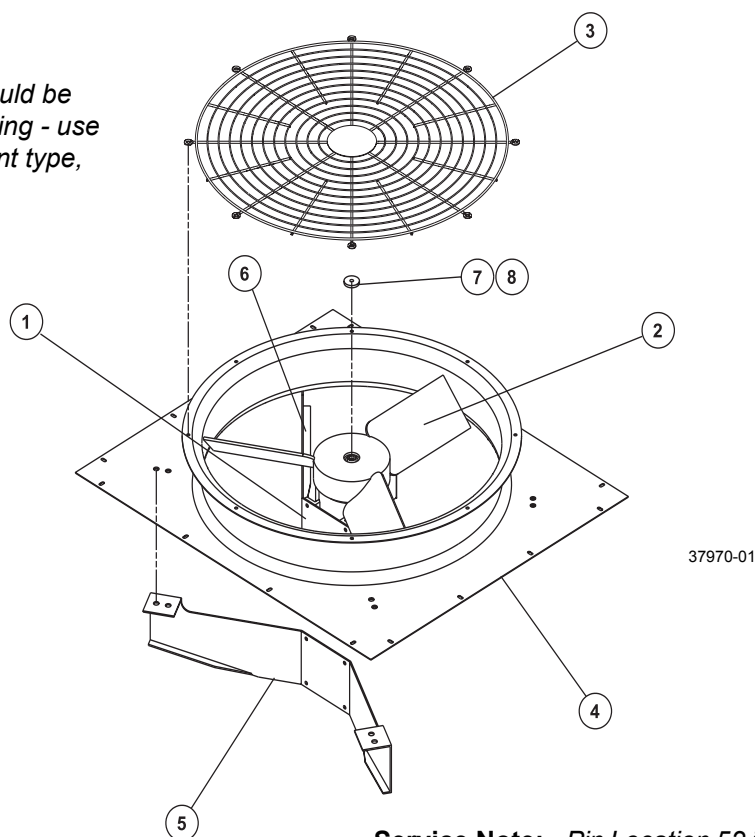
***Note:** Coil Module includes coil and headers.

****Note:** Coils for each circuit are denoted left and right as viewed from the power panel end of chiller.

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 3.

FIG. 3 – FAN COMPONENTS

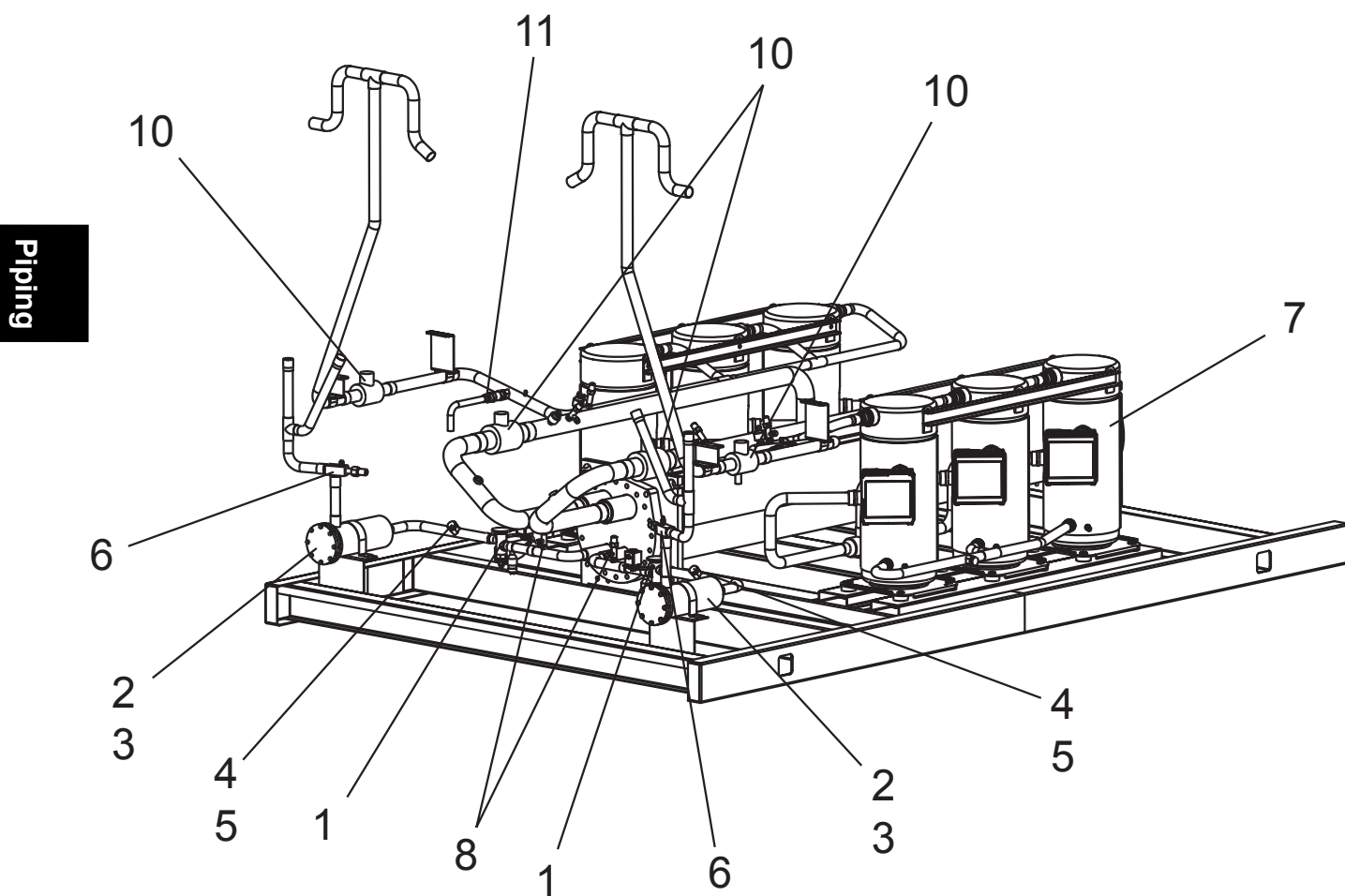
TABLE 3 – FAN COMPONENTS

ITEM NUMBER	DESCRIPTION	VOLTAGE CODE	FAN TYPE	
			STANDARD 7/8", 1160 RPM	LOW NOISE 7/8", 850 RPM
1 ^s	Motor, Fan 2 HP (YCAL0287-YCAL0377)	-50	024-30900-001	024-30933-001
2 ^s	Blade	All	026-37577-000	026-37579-000
3	Guard	All	026-35605-000	
4	Orifice	All	026-36760-000	
5	Support, Inner	All	075-46055-000	
6	Support, Outer	All	075-46065-000	
7	Screw, Cap (M8x125)	All	021-18494-000	
8	Spacer	All	075-29007-000	

^s = Recommended Spare Parts

REFRIGERANT PIPING COMPONENTS

CHILLER MODEL YCAL – MMHP



47660-001

FIG. 4 – REFRIGERANT PIPING COMPONENTS - MODEL YCAL0317 SHOWN
(REF. TABLE 4, PAGES 11 AND 12)

REFRIGERANT PIPING COMPONENTS (CONT'D)

CHILLER MODEL YCAL – MMHP

TABLE 4 – REFRIGERANT PIPING COMPONENTS (SEE FIG. 4, PAGE 10)

ITEM NO.	SYS.	DESCRIPTION	YCAL0287 375-47660-xxx	YCAL0317 375-47661-xxx
1^S	1	Valve, Electronic Expansion	025-35952-000	025-35952-000
	2		025-35952-000	025-35952-000
2	1	Dehydrator, Body (Not Shown)	026-21055-000	026-21055-000
	2		026-21055-000	026-21055-000
3^S	Both	Core, Dehydrator	026-37540-000	026-37540-000
4	1	Moisture Indicator, Body	026-32800-000	026-32800-000
	2		026-32800-000	026-32800-000
5	Both	Moisture Indicator, Sight Glass Cap	026-32398-000	026-32398-000
6	Both	Valve, Liquid Stop	022-09778-000	022-09778-000
7	Both	Compressor	See pages 15 and 16	
8	Both	Valve, Charging	022-09754-000	022-09754-000
9*	Both	Insulation, 1 3/8"	010-02848-000	010-02848-000
		Insulation, 1 5/8"	010-03628-000	010-03628-000
		Insulation, 2 1/8"	010-02842-000	N/A
		Insulation, 2 5/8"	010-02843-000	010-02843-000
		Insulation, 3 1/8"	N/A	N/A
10	Both	Valve, Ball (Discharge)	022-08883-000	022-08883-000
		Valve, Ball (Suction)	022-09753-000	022-09753-000
11	Both	Valve, Relief	022-08863-000	022-08863-000

^S = Recommended Spare Parts***Note:** Piping insulation not shown.

REFRIGERANT PIPING COMPONENTS (CONT'D)

CHILLER MODEL YCAL – MMHP

TABLE 4 (CONT'D) – REFRIGERANT PIPING COMPONENTS
(SEE FIG. 4, PAGE 10)

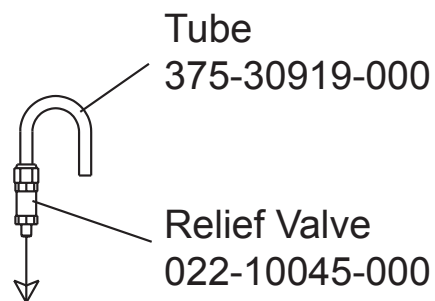
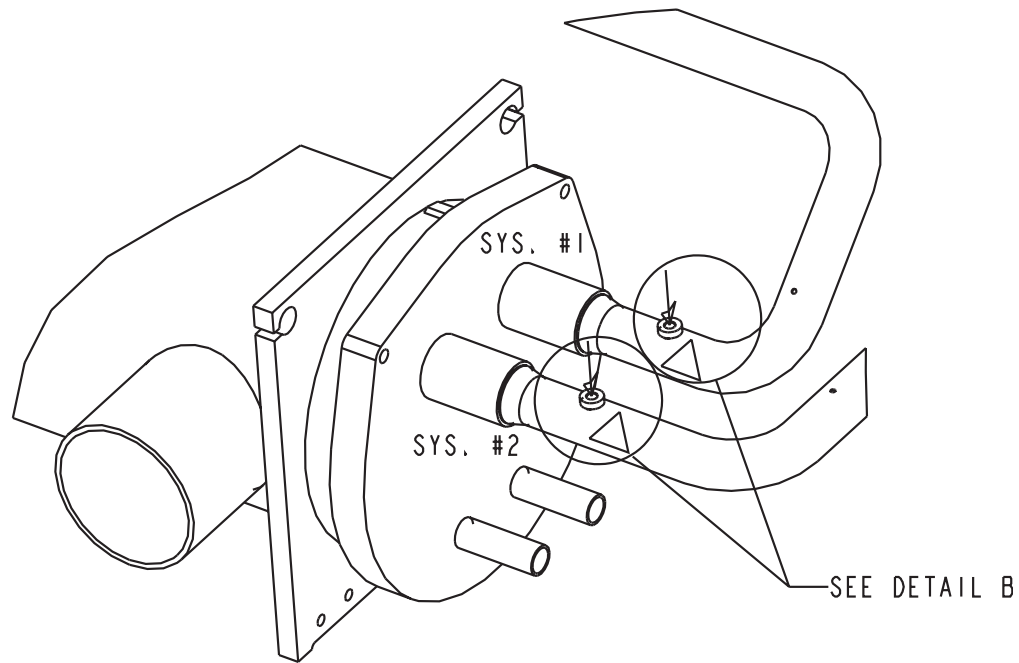
ITEM NO.	SYS.	DESCRIPTION	YCAL0347 375-47662-xxx	YCAL0377 375-47663-xxx
1^s	1	Valve, Electronic Expansion	025-37835-000	025-37835-000
	2		025-35952-000	025-37835-000
2	1	Dehydrator, Body (Not Shown)	026-21055-000	026-21055-000
	2		026-21055-000	026-21055-000
3^s	Both	Core, Dehydrator	026-37540-000	026-37540-000
4	1	Moisture Indicator, Body	026-32800-000	026-32800-000
	2		026-32800-000	026-32800-000
5	Both	Moisture Indicator, Sight Glass Cap	026-32398-000	026-32398-000
6	Both	Valve, Liquid Stop	022-09778-000	022-09778-000
7	Both	Compressor	See pages 16 and 17	
8	Both	Valve, Charging	022-09754-000	022-09754-000
9*	Both	Insulation, 1 3/8"	010-02848-000	N/A
		Insulation, 1 5/8"	010-03628-000	010-03628-000
		Insulation, 2 1/8"	010-02842-000	010-02842-000
		Insulation, 2 5/8"	N/A	010-02843-000
		Insulation, 3 1/8"	N/A	N/A
10	Both	Valve, Ball (Discharge)	022-08883-000	022-08883-000
		Valve, Ball (Suction)	022-09753-000	022-09753-000
11	Both	Valve, Relief	022-08863-000	022-08863-000

^s = Recommended Spare Parts

***Note:** Piping insulation not shown.

REFRIGERANT PIPING COMPONENTS (CONT'D)

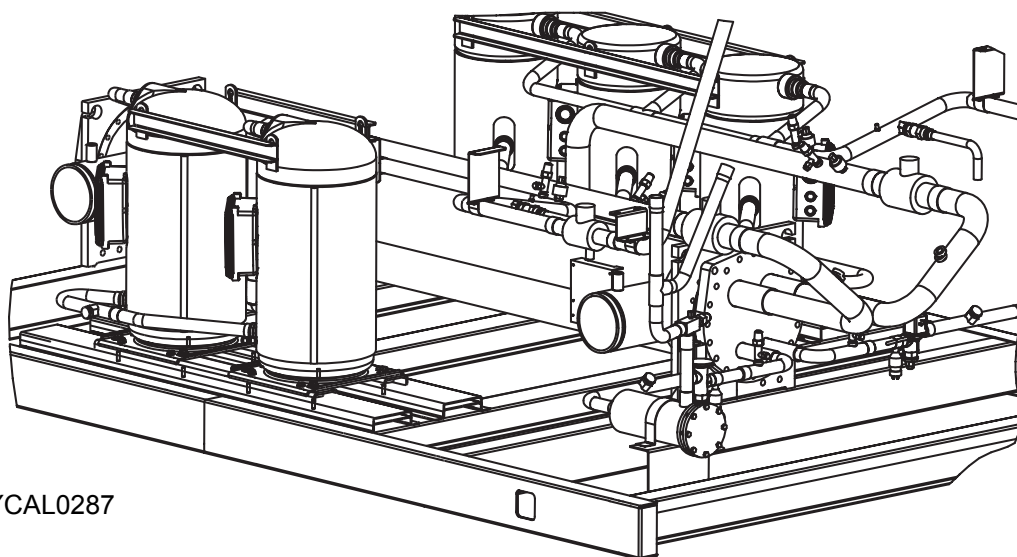
CHILLER MODEL YCAL – MMHP



DETAIL B
SYSTEM 1 & 2

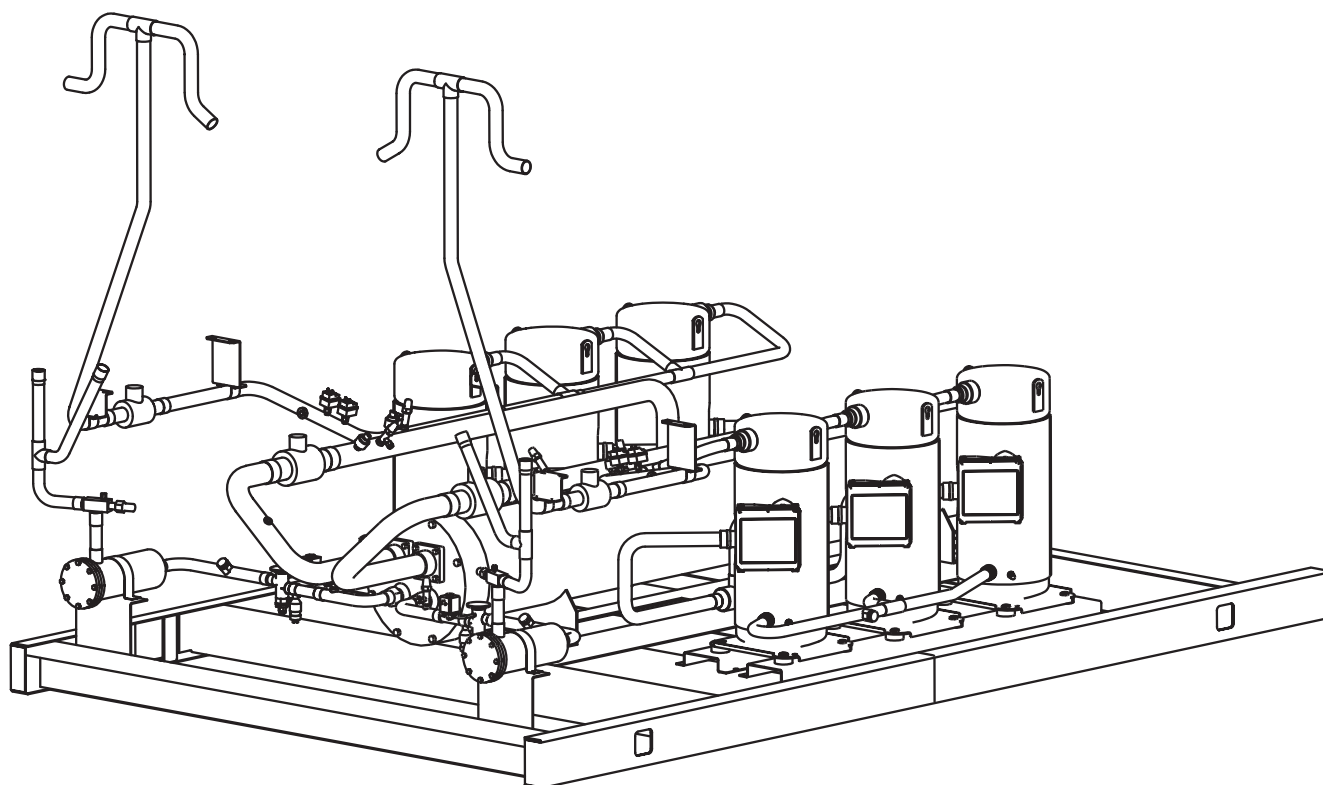
FIG. 4a – SAFETY RELIEF VALVE

COMPRESSOR



YCAL0287

47660-001b



YCAL0317, YCAL0347 and YCAL0377

47660-0

FIG. 6 – COMPRESSOR LAYOUTS (REF. TABLES 5, 5A AND 5B, PAGES 15 AND 16)

COMPRESSOR (CONT'D)

TABLE 5 – COMPRESSOR PART NUMBERS - R-22
(SEE FIGS. 6 AND 6A, PAGE 14 AND 16)

R-22

MODEL	VOLTAGE CODE	SYSTEM #1 COMPRESSOR			SYSTEM #2 COMPRESSOR		
		PART #	MODEL #	QTY	PART #	MODEL #	QTY
YCAL0287	-50	015-02891-104	ZR250KC	3	015-02891-204	ZR300KC	2
YCAL0317	-50	015-02891-104	ZR250KC	3	015-02891-104	ZR250KC	3
YCAL0347	-50	015-02891-204	ZR300KC	3	015-02891-104	ZR250KC	3
YCAL0377	-50	015-02891-204	ZR300KC	3	015-02891-204	ZR300KC	3

TABLE 5 (CONT'D) – COMPRESSOR PART NUMBERS - R-407C
(SEE FIGS. 6 AND 6A, PAGE 14 AND 16)

R-407C

MODEL	VOLTAGE CODE	SYSTEM #1 COMPRESSOR			SYSTEM #2 COMPRESSOR		
		PART #	MODEL #	QTY	PART #	MODEL #	QTY
YCAL0287	-50	015-02891-304	ZR250KCE	3	015-02891-404	ZR300KCE	2
YCAL0317	-50	015-02891-304	ZR250KCE	3	015-02891-304	ZR250KCE	3
YCAL0347	-50	015-02891-404	ZR300KCE	3	015-02891-304	ZR250KCE	3
YCAL0377	-50	015-02891-404	ZR300KCE	3	015-02891-404	ZR300KCE	3

Compressor

COMPRESSOR (CONT'D)

TABLE 5A – COMPRESSOR OIL TYPE

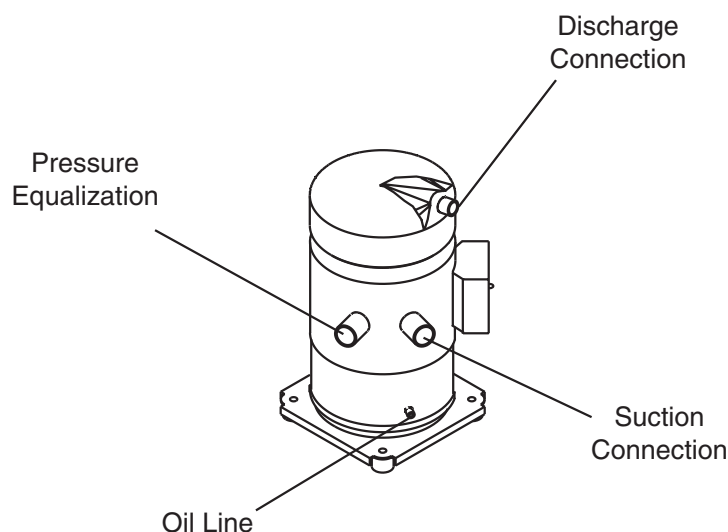
ITEM	REF.	DESCRIPTION	1 GALLON	5 GALLON
OIL^S	R-22	Oil, Type 'F' (Mineral)	—	011-00434-000
	R-407C	Oil, Type 'V'	011-00948-000	011-00949-000

^S = Recommended Spare Parts

TABLE 5B – HEATER PART NUMBERS

MODEL	SYSTEM	HEATER PART NUMBERS	QUANTITY
YCAL0287	1	025-37852-000	3
	2	025-37853-000	2
YCAL0317	1	025-37852-000	3
	2	025-37852-000	3
YCAL0347	1	025-37853-000	3
	2	025-37852-000	3
YCAL0377	1	025-37853-000	3
	2	025-37853-000	3

ITEM	REF. NO.	DESCRIPTION	YORK NO.
A	071-0520-05	Module Protector, Copeland	025-38995-000
B	005-0892-00	Cover, T-Box	025-38996-000
C	052-1201-00	Label, Wiring Diagram	035-19345-000

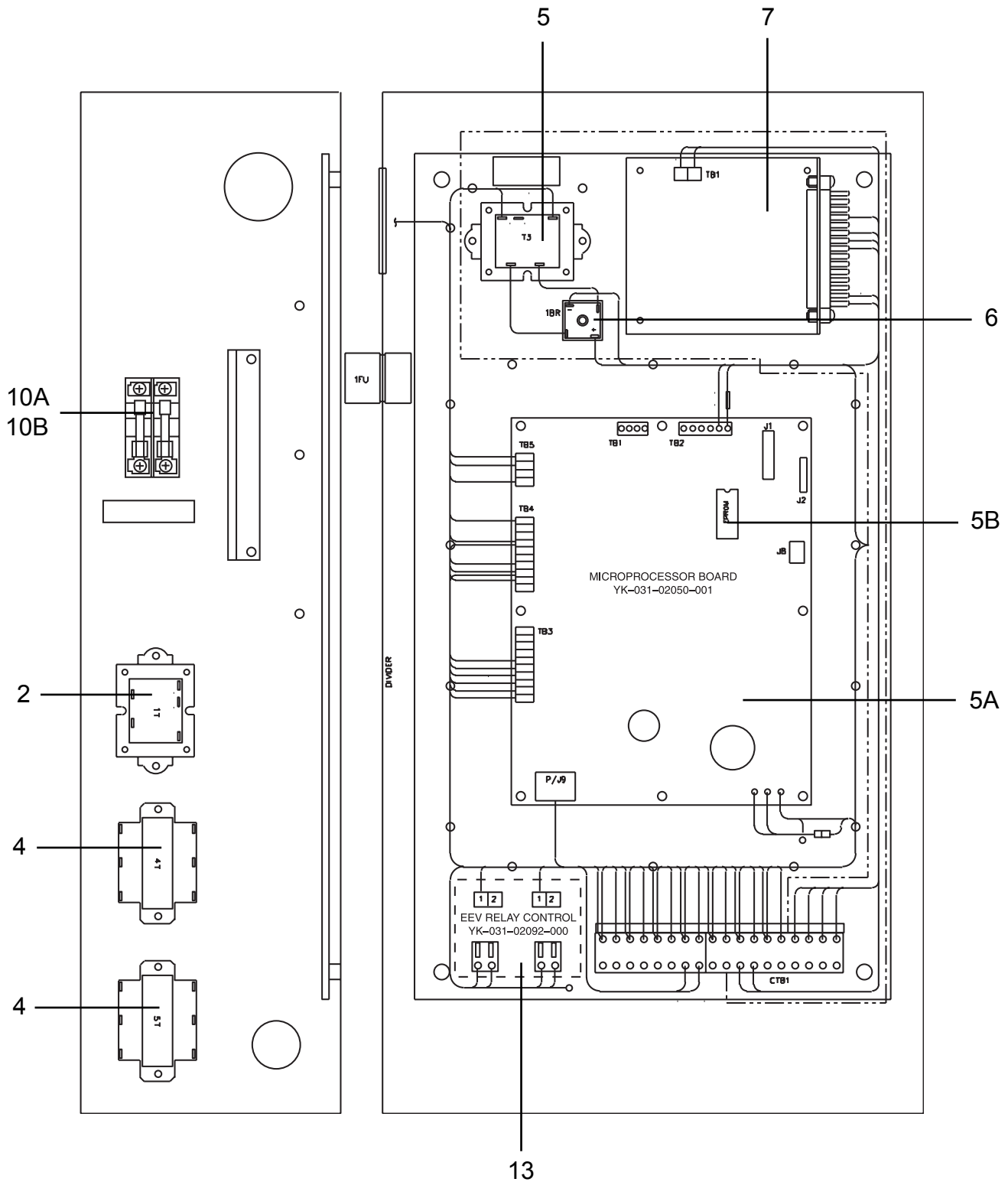


50459-1

FIG. 6A – COMPRESSOR (REF. TABLE 5, 5A AND 5B, PAGE 15 AND 16)

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CONTROL PANEL COMPONENTS



203741-1

FIG. 7 – CONTROL PANEL COMPONENTS (REF. TABLE 6, PAGE 17)

CONTROL PANEL AND POWER PANEL (CONT'D)

TABLE 6 – CONTROL PANEL COMPONENTS (SEE FIG. 7, PAGE 16)

Item No.	Qty.	Description	Common Parts
2	1	Transformer (115/24V)	025-30889-000
4	2	Transformer (4T & 5T)	025-27911-000
			025-37679-000
5	1	Transformer (3T)	025-18452-000
6	1	Bridge Rectifier	031-02201-000
7	1	Remote Current Reset	031-00814-000
5A ^s	1	Micro Board	031-02050-001
5B ^s	1	EPROM	031-02423-001
10A	1	Fuse Holder	025-34484-000
10B ^s	1	Fuse	025-34142-000
13	1	Relay, EEV	031-02092-000

^s Recommended Spare Part

LUG KITS TABLE

Circuit Breakers		Wire Size	YORK Lug Kit Part Number
024-31852-000	S3H035TW	#14AWG-#2 AWG	025-34477-000
024-31837-000	S3H040TW		
024-31838-000	S3H050TW		
024-31839-000	S3H060TW		
024-31840-000	S3H070TW	#14AWG-#1/0 AWG	025-34478-000
024-31841-000	S3H080TW		
024-31842-000	S3H090TW		
024-31843-000	S3H100TW		
024-31844-000	S3H125TW	(1) 2-4/0 AWG	025-34479-000
024-31649-000	S3H150TW		
024-31820-000	S3H175TW	#14AWG-300KCMIL AWG	025-34480-000
024-31851-000	S3H200TW		
024-31819-000	S3H225TW	#6AWG-350KCMIL AWG	025-34418-000
025-34419-000	S4H250BW		
024-34424-000	S5H400BW	(1) 250-500KCMIL AWG	025-34481-000
Non-Fused Disconnect Switch		Wire Size	YORK Lug Kit Part Number
024-31888-000	S3H150DW	(1) 2-4/0 AWG	025-34479-000
024-31871-000	S3B225DW	#14AWG-300KCMIL AWG	025-34480-000
024-30963-000	S4H250DW	#6AWG-350KCMIL AWG	025-34418-000
024-30964-000	S5H400DW	(1) 250-500KCMIL AWG	025-34481-000

POWER PANEL COMPONENTS

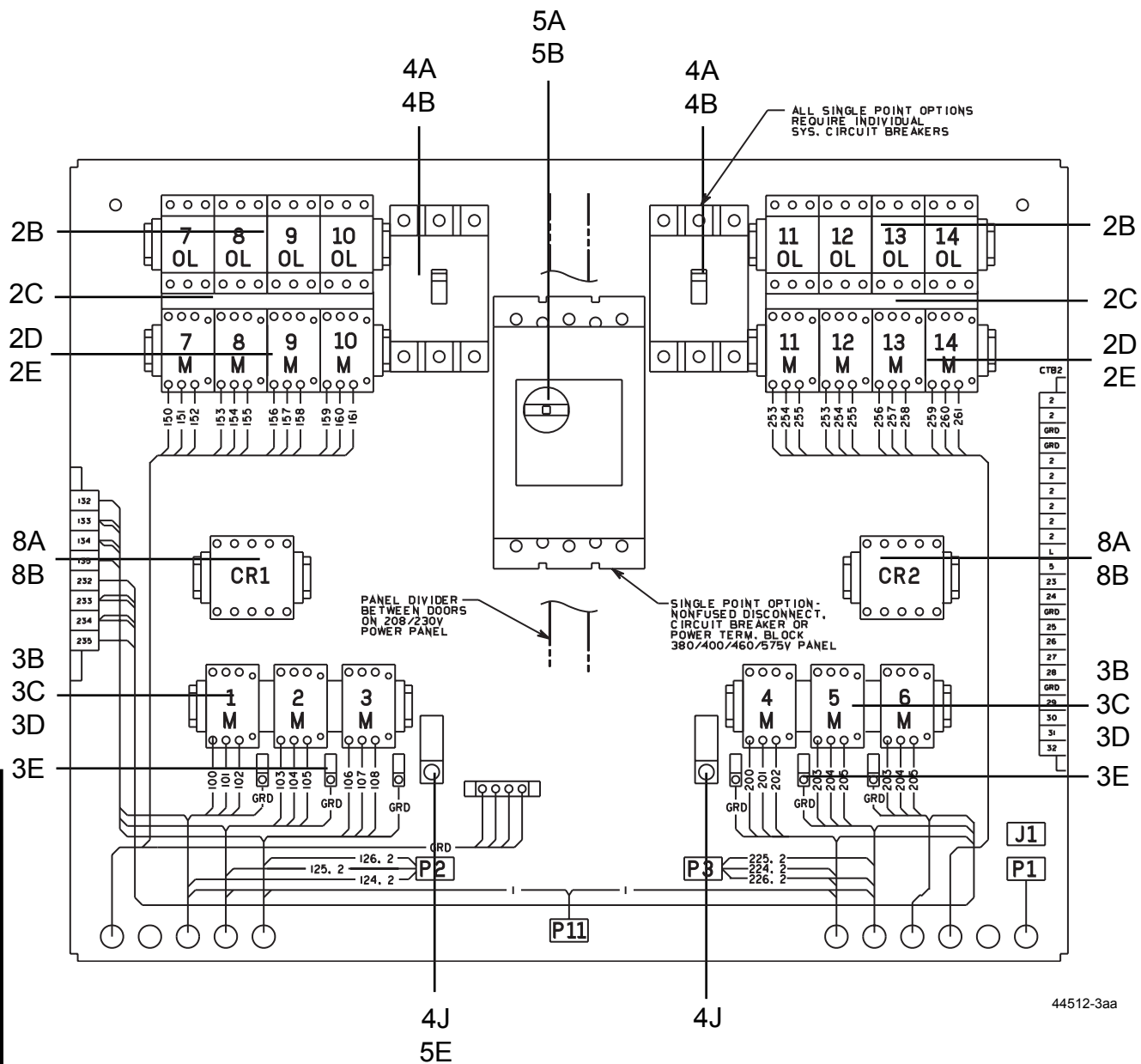
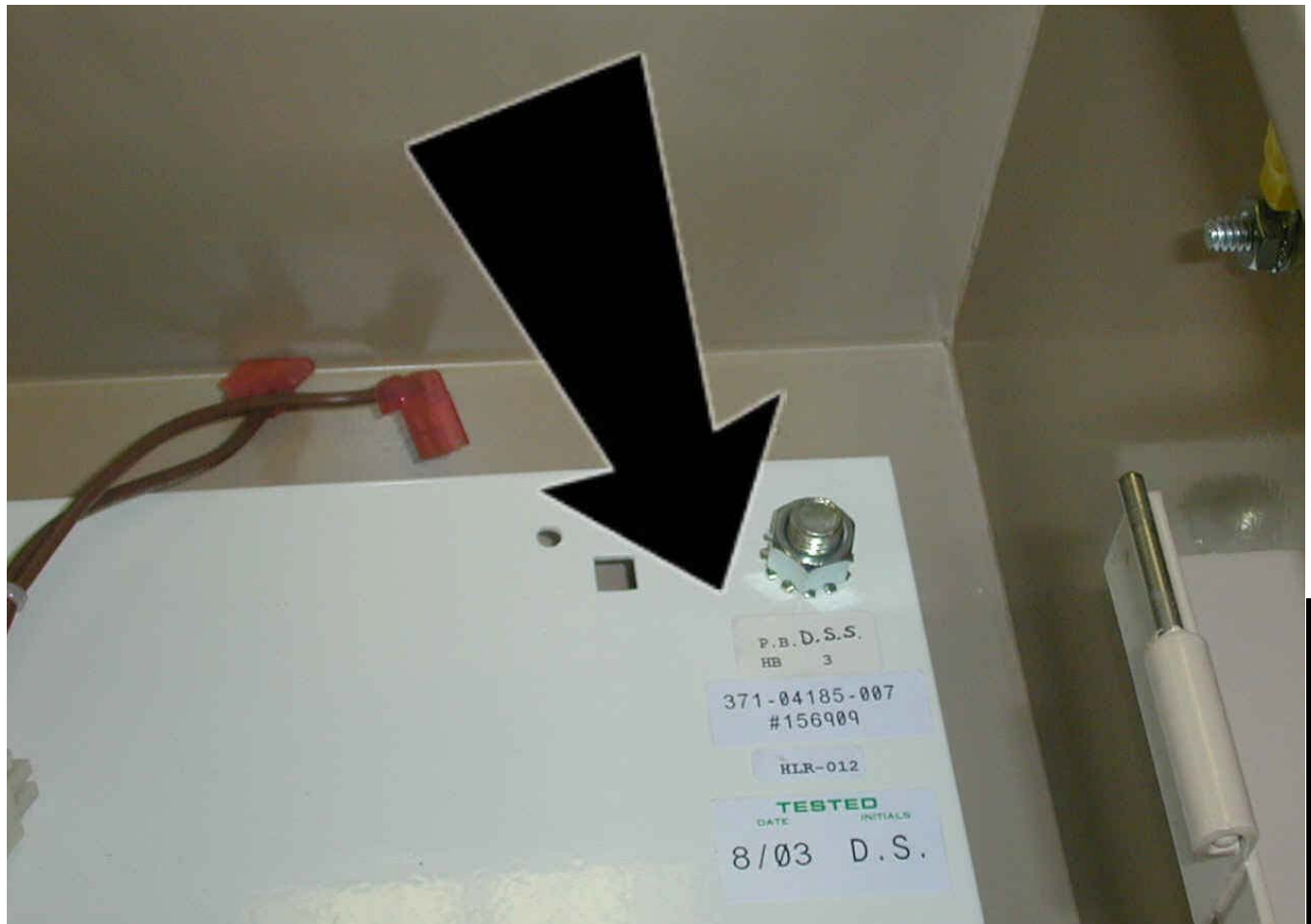


FIG. 8 – POWER PANEL COMPONENTS - (REF. TABLE 7, PAGES 22-29)

POWER PANEL COMPONENTS (CONT'D)



Control & Power Panel

FIG. 8a – PANEL NUMBER STICKER - (REF. TABLE 7, PAGES 22-29)

POWER PANEL COMPONENTS (CONT'D)

TABLE 7 – POWER PANEL COMPONENTS - YCAL0287-50 MULTIPLE POINT (SEE FIG. 8, PAGE 20)

Item No.	Qty.	Description	Multiple Point Terminal Blocks		Multiple Point Circuit Breakers		Multiple Point Non-Fused Disconnect Switches	
			OLD	NEW	OLD	NEW	OLD	NEW
2B ^s	6	Fan Overload	*371-03757-015	*371-04186-016	*371-03757-029	*371-04186-034	*371-03757-049	*371-04186-053
2C	6	Link Module	024-34298-000	024-34298-000	024-34298-000	024-34298-000	024-34298-000	024-34298-000
2D ^s	6	Fan Contactor	024-34314-000	024-34314-000	024-34314-000	024-34314-000	024-34314-000	024-34314-000
2E	6	Suppressor	024-32929-000	024-32929-000	024-32929-000	024-32929-000	024-32929-000	024-32929-000
3B	3	Compressor Contactor (Sys 1)	031-02213-000	031-02213-000	031-02213-000	031-02213-000	031-02213-000	031-02213-000
3C	2	Compressor Contactor (Sys 2)	024-33046-000	024-32942-000	024-33046-000	024-32942-000	024-33046-000	024-32942-000
3D	5	Surge Suppressor (Sys 2)	024-33411-000	024-33046-000	024-33411-000	024-33046-000	024-33411-000	024-33046-000
3E	5	Auxiliary Contact (Sys 2)	031-02213-000	031-02213-000	031-02213-000	031-02213-000	031-02213-000	031-02213-000
4A	5	Ground Lug	024-32933-000	024-32933-000	024-32933-000	024-32933-000	024-32933-000	024-32933-000
	3	MP Terminal Block (Sys 1)	025-34088-000	025-34088-000	025-34088-000	025-34088-000	025-34088-000	025-34088-000
	3	MP Terminal Block (Sys 2)	025-38363-000	025-38363-000	N/A	N/A	N/A	N/A
	1	MP Circuit Breaker (Sys 1)	N/A	N/A	024-33419-000	024-33419-000	N/A	N/A
	1	MP Circuit Breaker (Sys 2)	N/A	N/A	024-33418-000	024-33418-000	N/A	N/A
	1	MP Non-Fused Disc. Sw. (Sys 1)	N/A	N/A	N/A	N/A	024-33425-000	024-33424-000
	1	MP Non-Fused Disc. Sw. (Sys 2)	N/A	N/A	N/A	N/A	024-33425-000	024-33424-000
4B	2	MP Handle (CB & NFDS)	N/A	N/A	024-33434-000	024-33434-000	024-33434-000	024-33434-000
4J	2	MP Shaft (CB & NFDS)	N/A	N/A	024-33433-000	024-33433-000	024-33433-000	024-33433-000
5A	3	SP Terminal Block	025-34455-000	025-34088-000	025-34088-000	025-34088-000	025-34088-000	025-34088-000
5B	1	SP Oper. Mech. (NFDS)	N/A	N/A	N/A	N/A	N/A	N/A
5E	1	SP Ground Lug	N/A	N/A	N/A	N/A	N/A	N/A
8A	2	Surge Suppressor	031-02212-000	031-02212-000	031-02212-000	031-02212-000	031-02212-000	031-02212-000
8B	2	Relay	024-33416-000	024-33416-000	024-33416-000	024-33416-000	024-33416-000	024-33416-000

^s Recommended Spare Part

***Service Note:**

Locate the PANEL NUMBER sticker on the upper right hand corner of the power panel, see Figure 8a, Page 19, then refer to the appropriate parts list for that number.

POWER PANEL COMPONENTS (CONT'D)

TABLE 7 – POWER PANEL COMPONENTS - YCAL0287-50 SINGLE POINT (SEE FIG. 8, PAGE 20)

Item No.	Qty.	Description	Single Point Non-Fused Disc. Sw. w/ Sep. Sys. Circuit Breakers		Single Point Terminal Block w/ Sep. Sys. Circuit Breakers	
			OLD	NEW	OLD	NEW
2B^s	6	Fan Overload	*371-03757-069	*371-04186-089	*371-03757-089	*371-04186-071
2C	6	Link Module	024-34298-000	024-34298-000	024-34298-000	024-34298-000
2D^s	6	Fan Contactor	024-34314-000	024-34314-000	024-34314-000	024-34314-000
2E	6	Suppressor	024-32929-000	024-32929-000	024-32929-000	024-32929-000
3B	3	Compressor Contactor (Sys 1)	031-02213-000	031-02213-000	031-02213-000	031-02213-000
	2	Compressor Contactor (Sys 2)	024-33046-000	024-32942-000	024-33046-000	024-32942-000
3C	5	Surge Suppressor (Sys 2)	024-33411-000	024-33046-000	024-33411-000	024-33046-000
3D	5	Auxiliary Contact (Sys 2)	031-02213-000	031-02213-000	031-02213-000	031-02213-000
3E	5	Ground Lug	024-32933-000	024-32933-000	024-32933-000	024-32933-000
	3	MP Terminal Block (Sys 1)	025-34088-000	025-34088-000	025-34088-000	025-34088-000
	3	MP Terminal Block (Sys 2)	N/A	N/A	N/A	N/A
4A	1	MP Circuit Breaker (Sys 1)	N/A	N/A	N/A	N/A
	1	MP Circuit Breaker (Sys 2)	024-33419-000	024-33419-000	024-33419-000	024-33419-000
	1	MP Non-Fused Disc. Sw. (Sys 1)	024-33418-000	024-33418-000	024-33418-000	024-33418-000
	1	MP Non-Fused Disc. Sw. (Sys 2)	N/A	N/A	N/A	N/A
4B	2	MP Handle (CB & NFDS)	N/A	N/A	N/A	N/A
	2	MP Shaft (CB & NFDS)	024-33434-000	024-33434-000	024-33434-000	024-33434-000
4J	1	Ground Lug (Sys 1)	024-33433-000	024-33433-000	024-33433-000	024-33433-000
	1	Ground Lug (Sys 2)	025-34088-000	025-34088-000	025-34088-000	025-34088-000
5A	3	SP Terminal Block	N/A	N/A	025-38370-000	025-38370-000
	1	SP Non-Fused Disc. Sw.	024-33425-000	024-33425-000	N/A	N/A
5B	1	SP Handle (NFDS)	024-33434-000	024-33434-000	N/A	N/A
	1	SP Shaft (NFDS)	024-33433-000	024-33433-000		
5E	1	SP Ground Lug	024-33433-000	024-33433-000		
8A	2	Surge Suppressor	025-34085-000	025-34085-000	025-34086-000	025-34085-000
8B	2	Relay	031-02212-000	031-02212-000	031-02212-000	031-02212-000
			024-33416-000	024-33416-000	024-33416-000	024-33416-000

^s Recommended Spare Part

***Service Note:**

Locate the PANEL NUMBER sticker on the upper right hand corner of the power panel, see Figure 8a, Page 19, then refer to the appropriate parts list for that number.

Control & Power Panel

POWER PANEL COMPONENTS (CONT'D)

TABLE 7 – POWER PANEL COMPONENTS - YCAL0317-50 MULTIPLE POINT (SEE FIG. 8, PAGE 20)

Item No.	Qty.	Description	Multiple Point Terminal Blocks		Multiple Point Circuit Breakers		Multiple Point Non-Fused Disconnect Switches	
			OLD	NEW	OLD	NEW	OLD	NEW
			*371-03757-110	*371-04186-017	*371-03757-111	*371-04186-035	*371-03757-112	*371-04186-054
2BS	6	Fan Overload	024-34298-000	024-34298-000	024-34298-000	024-34298-000	024-34298-000	024-34298-000
2C	6	Link Module	024-34314-000	024-34314-000	024-34314-000	024-34314-000	024-34314-000	024-34314-000
2DS	6	Fan Contactor	024-32929-000	024-32929-000	024-32929-000	024-32929-000	024-32929-000	024-32929-000
2E	6	Supressor	031-02213-000	031-02213-000	031-02213-000	031-02213-000	031-02213-000	031-02213-000
3B	3	Compressor Contactor (Sys 1)	024-33046-000	024-32942-000	024-33046-000	024-32942-000	024-33046-000	024-32942-000
	3	Compressor Contactor (Sys 2)	024-33046-000	024-32942-000	024-33046-000	024-32942-000	024-33046-000	024-32942-000
3C	6	Surge Suppressor	031-02213-000	031-02213-000	031-02213-000	031-02213-000	031-02213-000	031-02213-000
3D	6	Auxiliary Contact	024-32933-000	024-32933-000	024-32933-000	024-32933-000	024-32933-000	024-32933-000
3E	6	Ground Lug	025-34088-000	025-34088-000	025-34088-000	025-34088-000	025-34088-000	025-34088-000
4A	3	MP Terminal Block (Sys 1)	025-37614-000	025-38363-000	N/A	N/A	N/A	N/A
	3	MP Terminal Block (Sys 2)	025-37614-000	025-38363-000	N/A	N/A	N/A	N/A
	1	MP Circuit Breaker (Sys 1)	N/A	N/A	024-33419-000	024-33419-000	N/A	N/A
	1	MP Circuit Breaker (Sys 2)	N/A	N/A	024-33419-000	024-33419-000	N/A	N/A
	1	MP Non-Fused Disc. Sw. (Sys 1)	N/A	N/A	N/A	N/A	024-33424-000	024-33424-000
	1	MP Non-Fused Disc. Sw. (Sys 2)	N/A	N/A	N/A	N/A	024-33424-000	024-33424-000
4B	1	MP Handle (CB & NFDS)	N/A	N/A	024-33434-000	024-33434-000	024-33434-000	024-33434-000
	1	MP Shaft (CB & NFDS)	N/A	N/A	024-33433-000	024-33433-000	024-33433-000	024-33433-000
4J	1	Ground Lug (Sys 1)	025-34455-000	025-34088-000	025-34088-000	025-34088-000	025-34088-000	025-34088-000
	1	Ground Lug (Sys 2)	N/A	N/A	N/A	N/A	N/A	N/A
5A	3	SP Terminal Block	N/A	N/A	N/A	N/A	N/A	N/A
	1	SP Non-Fused Disc. Sw.	N/A	N/A	N/A	N/A	N/A	N/A
5B	1	SP Handle (NFDS)	N/A	N/A	N/A	N/A	N/A	N/A
5E	1	SP Ground Lug	N/A	N/A	N/A	N/A	N/A	N/A
8A	2	Surge Suppressor	031-02212-000	031-02212-000	031-02212-000	031-02212-000	031-02212-000	031-02212-000
8B	2	Relay	024-33416-000	024-33416-000	024-33416-000	024-33416-000	024-33416-000	024-33416-000

***Service Note:**

Locate the PANEL NUMBER sticker on the upper right hand corner of the power panel, see Figure 8a, Page 19, then refer to the appropriate parts list for that number.

§ Recommended Spare Part

POWER PANEL COMPONENTS (CONT'D)

TABLE 7 – POWER PANEL COMPONENTS - YCAL0317-50 SINGLE POINT (SEE FIG. 8, PAGE 20)

Item No.	Qty.	Description	Single Point Non-Fused Disc. Sw. w/ Sep. Sys. Circuit Breakers		Single Point Terminal Block w/ Sep. Sys. Circuit Breakers	
			OLD	NEW	OLD	NEW
2B^S	6	Fan Overload	*371-03757-113	*371-04186-090	*371-03757-114	*371-04186-072
2C	6	Link Module	024-34298-000	024-34298-000	024-34298-000	024-34298-000
2D^S	6	Fan Contactor	024-34314-000	024-34314-000	024-34314-000	024-34314-000
2E	6	Supressor	024-32929-000	024-32929-000	024-32929-000	024-32929-000
			031-02213-000	031-02213-000	031-02213-000	031-02213-000
3B	3	Compressor Contactor (Sys 1)	024-33046-000	024-32942-000	024-33046-000	024-32942-000
	3	Compressor Contactor (Sys 2)	024-33046-000	024-32942-000	024-33046-000	024-32942-000
3C	6	Surge Suppressor	031-02213-000	031-02213-000	031-02213-000	031-02213-000
3D	6	Auxiliary Contact	024-32933-000	024-32933-000	024-32933-000	024-32933-000
3E	6	Ground Lug	025-34088-000	025-34088-000	025-34088-000	025-34088-000
4A	3	MP Terminal Block (Sys 1)	N/A	N/A	N/A	N/A
	3	MP Terminal Block (Sys 2)	N/A	N/A	N/A	N/A
	1	MP Circuit Breaker (Sys 1)	024-33419-000	025-33419-000	024-33419-000	025-33419-000
	1	MP Circuit Breaker (Sys 2)	024-33419-000	024-33419-000	024-33419-000	024-33419-000
4B	1	MP Non-Fused Disc. Sw. (Sys 1)	N/A	N/A	N/A	N/A
	1	MP Non-Fused Disc. Sw. (Sys 2)	N/A	N/A	N/A	N/A
4J	2	MP Handle (CB & NFDS)	024-33434-000	024-33434-000	024-33434-000	024-33430-000
	2	MP Shaft (CB & NFDS)	024-33433-000	024-33433-000	024-33433-000	024-33430-000
5A	1	Ground Lug (Sys 1)	025-34088-000	025-34088-000	025-34088-000	025-34088-000
	1	Ground Lug (Sys 2)	025-34088-000	025-34088-000	025-34088-000	025-34088-000
5B	3	SP Terminal Block	N/A	N/A	025-38349-000	025-38370-000
	1	SP Non-Fused Disc. Sw.	024-34426-000	024-33425-000	N/A	N/A
5E	1	SP Handle (NFDS)	024-33434-000	024-33434-000	N/A	N/A
	1	SP Shaft (NFDS)	024-33433-000	024-33433-000	N/A	N/A
8A	1	SP Ground Lug	025-34086-000	025-34085-000	025-34086-000	025-34085-000
8B	2	Surge Suppressor	031-02212-000	031-02212-000	031-02212-000	031-02212-000
	2	Relay	024-33416-000	024-33416-000	024-33416-000	024-33416-000

^S Recommended Spare Part

***Service Note:**

Locate the PANEL NUMBER sticker on the upper right hand corner of the power panel, see Figure 8a, Page 19, then refer to the appropriate parts list for that number.

Control & Power Panel

POWER PANEL COMPONENTS (CONT'D)

TABLE 7 – POWER PANEL COMPONENTS - YCAL0347-50 MULTIPLE POINT (SEE FIG. 8, PAGE 20)

Item No.	Qty.	Description	Multiple Point Terminal Blocks		Multiple Point Circuit Breakers		Multiple Point Non-Fused Disconnect Switches	
			OLD	NEW	OLD	NEW	OLD	NEW
			*371-03757-115	*371-04186-018	*371-03757-116	*371-04186-036	*371-03757-117	*371-04186-055
2BS	6	Fan Overload	024-34298-000	024-34298-000	024-34298-000	024-34298-000	024-34298-000	024-34298-000
2C	6	Link Module	024-34314-000	024-34314-000	024-34314-000	024-34314-000	024-34314-000	024-34314-000
2DS	6	Fan Contactor	024-32929-000	024-32929-000	024-32929-000	024-32929-000	024-32929-000	024-32929-000
2E	6	Suppressor	031-02213-000	031-02213-000	031-02213-000	031-02213-000	031-02213-000	031-02213-000
3B	3	Compressor Contactor (Sys 1)	024-33411-000	024-33046-000	024-33411-000	024-33046-000	024-33411-000	024-33046-000
	3	Compressor Contactor (Sys 2)	024-33046-000	024-32942-000	024-33046-000	024-32942-000	024-33046-000	024-32942-000
3C	6	Surge Suppressor	031-02213-000	031-02213-000	031-02213-000	031-02213-000	031-02213-000	031-02213-000
3D	6	Auxiliary Contact	024-32933-000	024-32933-000	024-32933-000	024-32933-000	024-32933-000	024-32933-000
3E	6	Ground Lug	025-34088-000	025-34088-000	025-34088-000	025-34088-000	025-34088-000	025-34088-000
4A	3	MP Terminal Block (Sys 1)	025-38349-000	025-38363-000	N/A	N/A	N/A	N/A
	3	MP Terminal Block (Sys 2)	025-37614-000	025-38363-000	N/A	N/A	N/A	N/A
	1	MP Circuit Breaker (Sys 1)	N/A	N/A	024-33420-000	024-33420-000	N/A	N/A
	1	MP Circuit Breaker (Sys 2)	N/A	N/A	024-33419-000	024-33419-000	N/A	N/A
	1	MP Non-Fused Disc. Sw. (Sys 1)	N/A	N/A	N/A	N/A	024-33425-000	024-33425-000
4B	1	MP Non-Fused Disc. Sw. (Sys 2)	N/A	N/A	N/A	N/A	024-33424-000	024-33424-000
	1	MP Handle (CB & NFDS)	N/A	N/A	024-33434-000	024-33434-000	024-33434-000	024-33434-000
4J	1	MP Shaft (CB & NFDS)	N/A	N/A	024-33433-000	024-33433-000	024-33433-000	024-33433-000
	1	Ground Lug (Sys 1)	025-34089-000	025-34088-000	025-34089-000	025-34089-000	025-34085-000	025-34085-000
5A	1	Ground Lug (Sys 2)	025-34455-000	025-34088-000	025-34088-000	025-34088-000	025-34088-000	025-34088-000
	3	SP Terminal Block	N/A	N/A	N/A	N/A	N/A	N/A
5B	1	SP Non-Fused Disc. Sw.	N/A	N/A	N/A	N/A	N/A	N/A
5E	1	SP Oper. Mech. (NFDS)	N/A	N/A	N/A	N/A	N/A	N/A
8A	2	SP Ground Lug	N/A	N/A	N/A	N/A	N/A	N/A
8B	2	Surge Suppressor	031-02212-000	031-02212-000	031-02212-000	031-02212-000	031-02212-000	031-02212-000
		Relay	024-33416-000	024-33416-000	024-33416-000	024-33416-000	024-33416-000	024-33416-000

S Recommended Spare Part

***Service Note:**
Locate the PANEL NUMBER sticker on the upper right hand corner of the power panel, see Figure 8a, Page 19, then refer to the appropriate parts list for that number.

POWER PANEL COMPONENTS (CONT'D)

TABLE 7 – POWER PANEL COMPONENTS - YCAL0347-50 SINGLE POINT (SEE FIG. 8, PAGE 20)

Item No.	Qty.	Description	Single Point Non-Fused Disc. Sw. w/ Sep. Sys. Circuit Breakers		Single Point Terminal Block w/ Sep. Sys. Circuit Breakers	
			OLD	NEW	OLD	NEW
2BS	6	Fan Overload	*371-03757-118	*371-04186-091	*371-03757-119	*371-04186-073
2C	6	Link Module	024-34298-000	024-34298-000	024-34298-000	024-34298-000
2DS	6	Fan Contactor	024-34314-000	024-34314-000	024-34314-000	024-34314-000
2E	6	Supressor	024-32929-000	024-32929-000	024-32929-000	024-32929-000
	6		031-02213-000	031-02213-000	031-02213-000	031-02213-000
3B	3	Compressor Contactor (Sys 1)	024-33411-000	024-33046-000	024-33411-000	024-33046-000
	3	Compressor Contactor (Sys 2)	024-33046-000	024-32942-000	024-33046-000	024-32942-000
3C	6	Surge Suppressor	031-02213-000	031-02213-000	031-02213-000	031-02213-000
3D	6	Auxiliary Contact	024-32933-000	024-32933-000	024-32933-000	024-32933-000
3E	6	Ground Lug	025-34088-000	025-34088-000	025-34088-000	025-34088-000
	3	MP Terminal Block (Sys 1)	N/A	N/A	N/A	N/A
	3	MP Terminal Block (Sys 2)	N/A	N/A	N/A	N/A
4A	1	MP Circuit Breaker (Sys 1)	024-33420-000	025-33420-000	024-33420-000	025-33420-000
	1	MP Circuit Breaker (Sys 2)	024-33419-000	024-33419-000	024-33419-000	024-33419-000
	1	MP Non-Fused Disc. Sw. (Sys 1)	N/A	N/A	N/A	N/A
	1	MP Non-Fused Disc. Sw. (Sys 2)	N/A	N/A	N/A	N/A
4B	1	MP Handle (CB & NFDS)	024-33434-000	024-33434-000	024-33434-000	024-33434-000
	1	MP Shaft (CB & NFDS)	024-33433-000	024-33433-000	024-33433-000	024-33433-000
4J	1	Ground Lug (Sys 1)	025-34089-000	025-34089-000	025-34089-000	025-34089-000
	1	Ground Lug (Sys 2)	025-34088-000	025-34088-000	025-34088-000	025-34088-000
5A	3	SP Terminal Block	N/A	N/A	025-38349-000	025-38370-000
	1	SP Non-Fused Disc. Sw.	024-34426-000	024-33426-000	N/A	N/A
5B	1	SP Handle (NFDS)	024-33434-000	024-33434-000	N/A	N/A
	1	SP Shaft (NFDS)	024-33433-000	024-33433-000		
5E	1	SP Ground Lug	025-34086-000	025-34086-000	025-34086-000	025-34085-000
8A	2	Surge Suppressor	031-02212-000	031-02212-000	031-02212-000	031-02212-000
8B	2	Relay	024-33416-000	024-33416-000	024-33416-000	024-33416-000

^s Recommended Spare Part

***Service Note:**
Locate the **PANEL NUMBER** sticker on the upper right hand corner of the power panel, see Figure 8a, Page 19, then refer to the appropriate parts list for that number.

POWER PANEL COMPONENTS (CONT'D)

TABLE 7 – POWER PANEL COMPONENTS - YCAL0377-50 MULTIPLE POINT (SEE FIG. 8, PAGE 20)

Item No.	Qty.	Description	Multiple Point Terminal Blocks		Multiple Point Circuit Breakers		Multiple Point Non-Fused Disconnect Switches	
			OLD	NEW	OLD	NEW	OLD	NEW
			*371-03757-105	*371-04186-019	*371-03757-106	*371-04186-037	*371-03757-107	*371-04186-056
2BS	6	Fan Overload	024-34298-000	024-34298-000	024-34298-000	024-34298-000	024-34298-000	024-34298-000
2C	6	Link Module	024-34314-000	024-34314-000	024-34314-000	024-34314-000	024-34314-000	024-34314-000
2DS	6	Fan Contactor	024-32929-000	024-32929-000	024-32929-000	024-32929-000	024-32929-000	024-32929-000
2E	6	Supressor	031-02213-000	031-02213-000	031-02213-000	031-02213-000	031-02213-000	031-02213-000
3B	3	Compressor Contactor (Sys 1)	024-33411-000	024-33046-000	024-33411-000	024-33046-000	024-33411-000	024-33046-000
	3	Compressor Contactor (Sys 2)	024-33411-000	024-33046-000	024-33411-000	024-33046-000	024-33411-000	024-33046-000
3C	6	Surge Suppressor	031-02213-000	031-02213-000	031-02213-000	031-02213-000	031-02213-000	031-02213-000
3D	6	Auxiliary Contact	024-32933-000	024-32933-000	024-32933-000	024-32933-000	024-32933-000	024-32933-000
3E	6	Ground Lug	025-34088-000	025-34088-000	025-34088-000	025-34088-000	025-34088-000	025-34088-000
4A	3	MP Terminal Block (Sys 1)	025-38349-000	025-38363-000	N/A	N/A	N/A	N/A
	3	MP Terminal Block (Sys 2)	025-38349-000	025-38363-000	N/A	N/A	N/A	N/A
	1	MP Circuit Breaker (Sys 1)	N/A	N/A	024-33420-000	024-33420-000	N/A	N/A
	1	MP Circuit Breaker (Sys 2)	N/A	N/A	024-33420-000	024-33420-000	N/A	N/A
	1	MP Non-Fused Disc. Sw. (Sys 1)	N/A	N/A	N/A	N/A	024-33425-000	024-33425-000
4B	1	MP Non-Fused Disc. Sw. (Sys 2)	N/A	N/A	N/A	N/A	024-33425-000	024-33425-000
	1	MP Handle (CB & NFDS)	N/A	N/A	024-33434-000	024-33434-000	024-33434-000	024-33434-000
4J	1	MP Shaft (CB & NFDS)	N/A	N/A	024-33433-000	024-33433-000	024-33433-000	024-33433-000
	1	Ground Lug (Sys 1)	025-34089-000	025-34088-000	025-34089-000	025-34089-000	025-34085-000	025-34085-000
5A	1	Ground Lug (Sys 2)	N/A	N/A	N/A	N/A	N/A	N/A
	3	SP Terminal Block	N/A	N/A	N/A	N/A	N/A	N/A
5B	1	SP Non-Fused Disc. Sw.	N/A	N/A	N/A	N/A	N/A	N/A
5E	1	SP Oper. Mech. (NFDS)	N/A	N/A	N/A	N/A	N/A	N/A
8A	1	SP Ground Lug	N/A	N/A	N/A	N/A	N/A	N/A
	2	Surge Suppressor	031-02212-000	031-02212-000	031-02212-000	031-02212-000	031-02212-000	031-02212-000
8B	2	Relay	024-33416-000	024-33416-000	024-33416-000	024-33416-000	024-33416-000	024-33416-000

^s Recommended Spare Part

***Service Note:**

Locate the PANEL NUMBER sticker on the upper right hand corner of the power panel, see Figure 8a, Page 19, then refer to the appropriate parts list for that number.

POWER PANEL COMPONENTS (CONT'D)

TABLE 7 – POWER PANEL COMPONENTS - YCAL0377-50 SINGLE POINT (SEE FIG. 8, PAGE 20)

Item No.	Qty.	Description	Single Point Non-Fused Disc. Sw. w/ Sep. Sys. Circuit Breakers		Single Point Terminal Block w/ Sep. Sys. Circuit Breakers	
			OLD	NEW	OLD	NEW
2B^S	6	Fan Overload	*371-03757-108	*371-04186-092	*371-03757-109	*371-04186-074
2C	6	Link Module	024-34298-000	024-34298-000	024-34298-000	024-34298-000
2D^S	6	Fan Contactor	024-34314-000	024-34314-000	024-34314-000	024-34314-000
2E	6	Suppressor	024-32929-000	024-32929-000	024-32929-000	024-32929-000
3B	3	Compressor Contactor (Sys 1)	031-02213-000	031-02213-000	031-02213-000	031-02213-000
	3	Compressor Contactor (Sys 2)	024-33411-000	024-33046-000	024-33411-000	024-33046-000
3C	6	Surge Suppressor	024-33411-000	024-33046-000	024-33411-000	024-33046-000
3D	6	Auxiliary Contact	031-02213-000	031-02213-000	031-02213-000	031-02213-000
3E	6	Ground Lug	024-32933-000	024-32933-000	024-32933-000	024-32933-000
	3	MP Terminal Block (Sys 1)	025-34088-000	025-34088-000	025-34088-000	025-34088-000
	3	MP Terminal Block (Sys 2)	N/A	N/A	N/A	N/A
4A	1	MP Circuit Breaker (Sys 1)	N/A	N/A	N/A	N/A
	1	MP Circuit Breaker (Sys 2)	024-33420-000	025-33420-000	024-33420-000	025-33420-000
	1	MP Non-Fused Disc. Sw. (Sys 1)	024-33420-000	024-33420-000	024-33420-000	024-33420-000
	1	MP Non-Fused Disc. Sw. (Sys 2)	N/A	N/A	N/A	N/A
4B	1	MP Handle (CB & NFDS)	N/A	N/A	N/A	N/A
	1	MP Shaft (CB & NFDS)	024-33434-000	024-33434-000	024-33434-000	024-33434-000
4J	1	Ground Lug (Sys 1)	024-33433-000	024-33433-000	024-33433-000	024-33433-000
	1	Ground Lug (Sys 2)	025-34089-000	025-34089-000	025-34089-000	025-34089-000
5A	3	SP Terminal Block	N/A	N/A	025-34405-000	025-38370-000
	1	SP Non-Fused Disc. Sw.	024-34426-000	024-33426-000	N/A	N/A
5B	1	SP Handle (NFDS)	024-33434-000	024-33434-000	N/A	N/A
	1	SP Shaft (NFDS)	024-33433-000	024-33433-000	N/A	N/A
5E	1	SP Ground Lug	025-34086-000	025-34086-000	025-34085-000	025-34085-000
8A	2	Surge Suppressor	031-02212-000	031-02212-000	031-02212-000	031-02212-000
8B	2	Relay	024-33416-000	024-33416-000	024-33416-000	024-33416-000

^S Recommended Spare Part

***Service Note:**

Locate the PANEL NUMBER sticker on the upper right hand corner of the power panel, see Figure 8a, Page 19, then refer to the appropriate parts list for that number.

SENSOR HARNESS

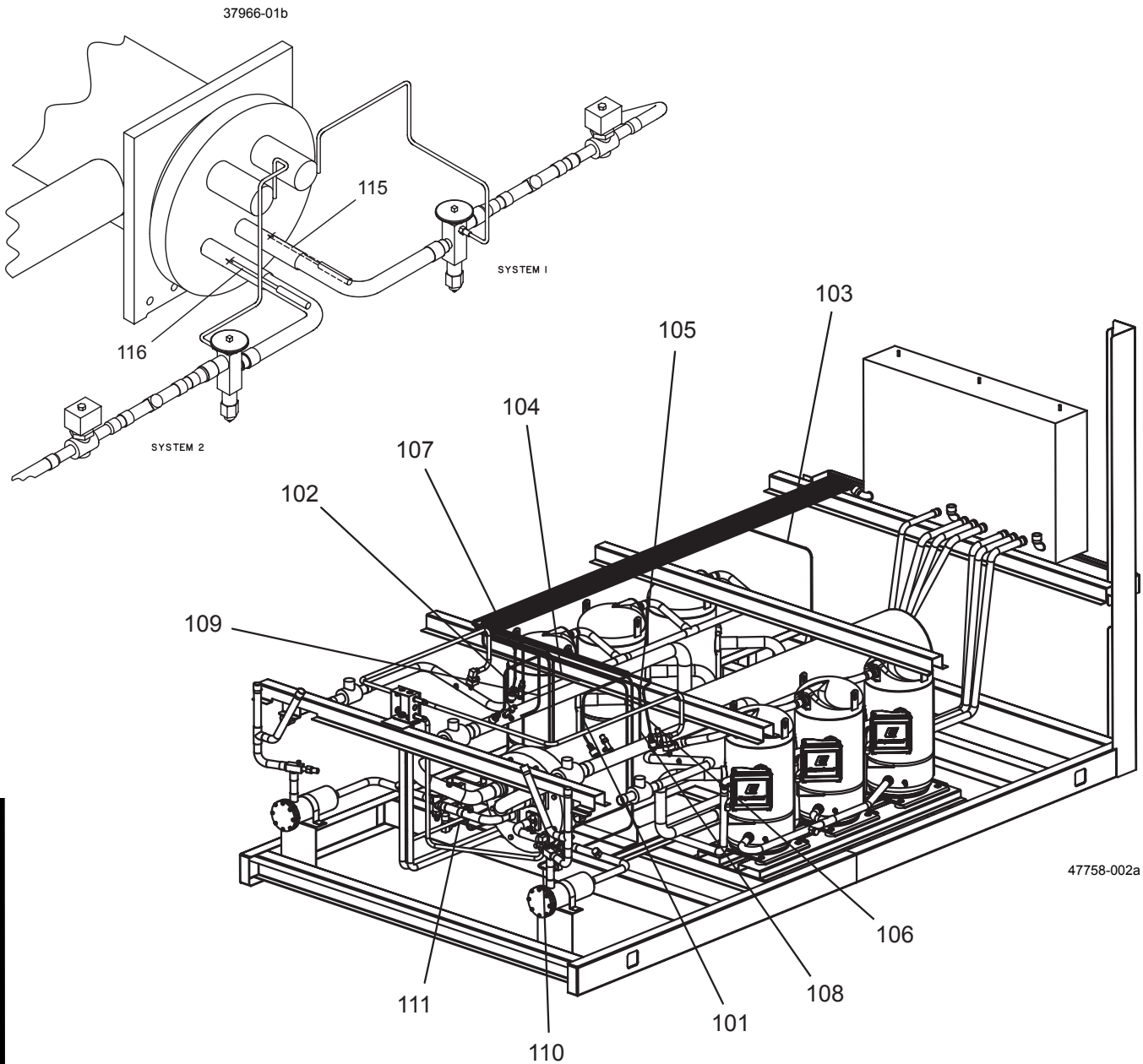


FIG. 9 – HARNESS LAYOUT (REF. TABLE 8, PAGE 77)

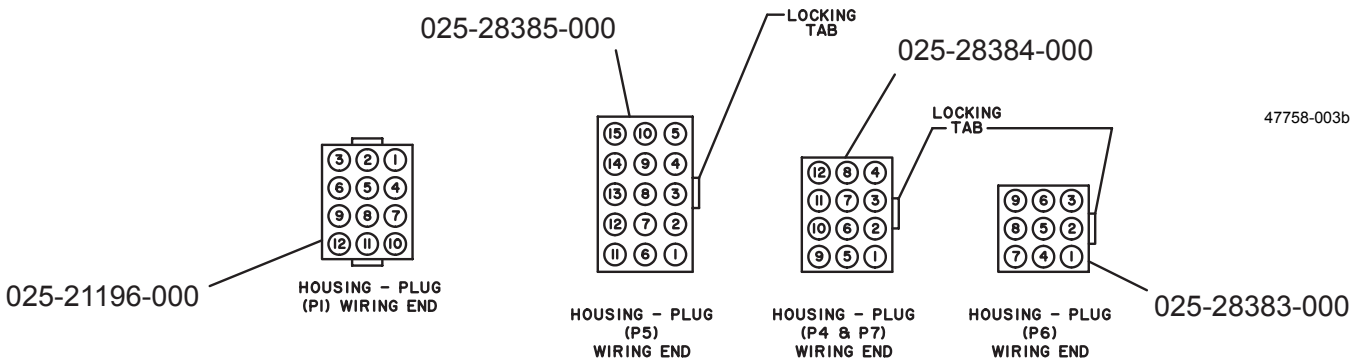


FIG. 10 – SENSOR HOUSING PART NUMBERS (REF. TABLE 8, PAGE 31)

SENSOR HARNESS - CONT'D

TABLE 8 – SENSOR HARNESS WIRING (SEE FIGS. 9 AND 10, PAGE 30)

Board Location	Cable Item No.	Cable Length	Wire Color	Plug Pin No.	Function	Harness Assembly Part Number
MICRO P4	101	190"	Red	5	System #1 Suction Pressure	375-46161-401
			White	10		
			Black	1		
			Drain	2		
	106	220"	Red	7	System #1 Discharge Pressure	375-46161-403
			White	12		
			Black	8		
			Drain	9		
MICRO P6	103	80"	Black	5	Leaving Chilled Water Temperature	375-46161-405
			Red	8		
			Drain	2		
	105	170"	Black	6	Entering Chilled Water Temperature	375-46161-407
			Red	9		
			Drain	3		
	104	200"	Black	4	Outside Air Temperature	375-46161-406
			Red	7		
			Drain	1		
MICRO P7	102	220"	Red	5	System #2 Suction Pressure	375-46161-402
			White	10		
			Black	1		
			Drain	2		
	107	220"	Red	7	System #2 Discharge Pressure	375-46161-404
			White	12		
			Black	8		
			Drain	9		
MICRO P5	115	240"	Red	12	System #1 Liquid Temperature Sensor	375-46161-281
			Black	7		
			Drain	2		
	116	240"	Red	13	System #2 Liquid Temperature Sensor	375-46161-282
			Black	8		
			Drain	3		
	108	162"	Red	14	System #1 Suction Temperature Sensor	371-37966-281
			Black	9		
			Drain	4		
	109	162"	Red	15	System #2 Suction Temperature Sensor	371-37966-282
			Black	10		
			Drain	5		
EEV OUTPUT BOARD AND TRANSFORMER 4T & 5T	110	200"	Black	4T	System #1 EEV Output	375-46161-283
			Red	TB 1-2		
	111	200"	Black	5T	System #2 EEV Output	375-46161-284
			Red	TB 2-2		

TRANSDUCERS, PRESSURE CUTOUTS AND TEMP SENSORS

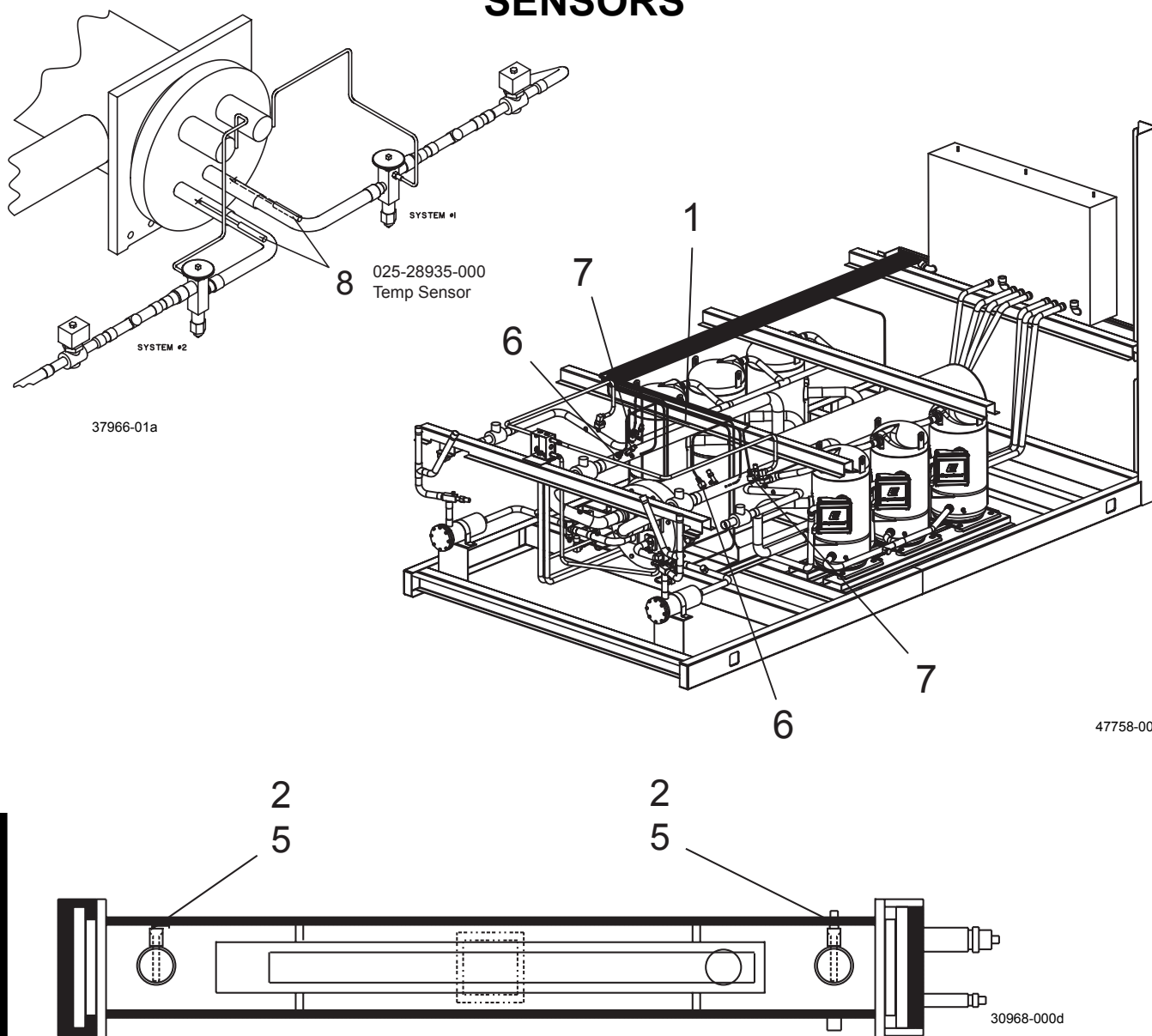


FIG. 11 – TRANSDUCERS AND TEMP SENSORS (REF. TABLE 9)

TABLE 9 – TRANSDUCERS AND TEMP SENSORS (SEE FIG. 11)

Item Number	Quantity	Description	Voltage Code	Part Number
1 ^S	1	Sensor, Outside Air Temperature	All	025-28663-001
2	2	Sensor, Water Temp. (EWT, LWT)	All	025-29964-000
5	-	Compound, Heat Conductive	All	013-00898-000
6 ^S	1 per system	Transducer, Suction Pressure (0-200psi)	All	025-29583-000
7 ^S	1 per system	Transducer, Discharge Pressure (0-400psi)	All	025-29139-001
8	1 per system	Sensor, EEV Suction Temperature	All	025-28935-000

^S Recommended Spare Part

TRANSDUCER AND THERMISTOR WIRE HARNESS CONNECTORS - FIELD REPLACEMENT PART NUMBERS

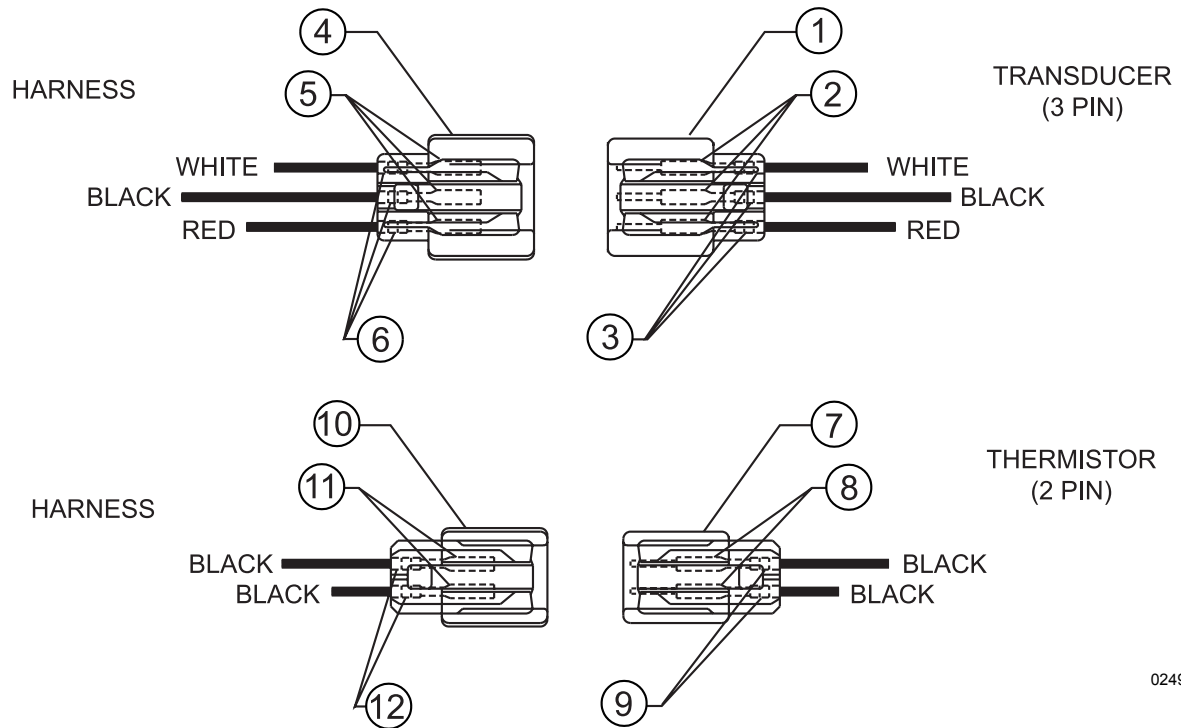


FIG. 12 – TRANSDUCER AND THERMISTOR WIRE HARNESS CONNECTORS - FIELD REPLACEMENT PART NUMBERS (REF. TABLE 10)

TABLE 10 – TRANSDUCER AND THERMISTOR WIRE HARNESS CONNECTORS - FIELD REPLACEMENT PART NUMBERS (SEE FIG. 12)

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	Transducer	Plug Connector	2 Pin End	025-28948-000
8		Contact Pins		025-28949-000
9		Rubber Collar		025-28950-000
10	Wire Harness	Plug Connector	2 Pin End	025-28951-000
11		Contact Pins		025-28952-000
12		Rubber Collar		025-28950-000

^s Recommended Spare Part

YCAL CHILLER OPTIONS – KITS

TABLE 11 – FIELD INSTALLED OPTIONS PART NUMBERS

MODEL NUMBER YCAL	VIBRATION ISOLATORS SPRING 1" DEFLEC. ALUMINUM* & BLACK FIN	VIBRATION ISOLATORS SPRING 2" (SEISMIC) ALUMINUM* & BLACK FIN	VIBRATION ISOLATOR PAD 1/2" DEFLEC. NEOPRENE	VIBRATION ISOLATORS SPRING 1" DEFLEC. COPPER*	VIBRATION ISOLATORS SPRING 2" (SEISMIC) COPPER*	VIBRATION ISOLATOR PAD 1/2" DEFLEC. NEOPRENE	BAS/EMS TEMPERATURE RESET / OFFSET	ISN MICRO-GATEWAY
MODEL #	029-23771	029-23769	029-23770	029-23771	029-23769	029-23770	375-30914	371-04455
0287	-112	-212	-013	-112	-214	-015	-000	-011
0317	-112	-212	-013	-112	-214	-015	-000	-011
0347	-113	-213	-014	-113	-215	-016	-000	-011
0377	-113	-213	-014	-113	-215	-016	-000	-011

* Note: Condenser Coil Fin Material.

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

MODEL NUMBER YCAL	STANDARD 150# FLOW SWITCH	OPTIONAL 300# FLOW SWITCH	DIFFERENTIAL PRESSURE SWITCH	HIGH AMBIENT KIT	MOTOR CURRENT MODULE KIT	RELIEF SAFETY DEVICE KIT	WELD FLANGE KIT	VICTAULIC FLANGE KIT
MODEL #	024-26116	024-12144	025-30919	475-47349	371-04101	375-45657	366-	023-
0287	-000	-000	-000	-50 Voltage Codes -000	-000	-001	93921-000	19049-000
0317								
0347							93936-000	19046-000
0377								

MODEL NUMBER YCAL	WIRE ENCLOSURE (FULL KIT)	LOUVERED ENCLOSURE (FULL KIT)	WIRE / LOUVERED ENCLOSURE (FULL KIT)	LOUVERED ENCLOSURE CONDENSER ONLY (FULL KIT)
0287	475-47327-010	475-47330-010	475-47333-010	475-47336-010
0317	475-47327-010	475-47330-010	475-47333-010	475-47336-010
0347	475-47328-012	475-47331-012	475-47334-012	475-47337-012
0377	475-47328-012	475-47331-012	475-47334-012	475-47337-012

TABLE 11A – CONTROL TRANSFORMER KIT

MODEL NUMBERS	VOLTAGE	DESCRIPTION	PART NUMBER
YCAL0287-YCAL0377	-50	KIT, CONTROL TRANSFORMER	375-03771-001

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ENCLOSURE KIT OPTIONS

TABLE 12 – ENCLOSURE KIT OPTIONS - TOP AND BOTTOM SECTIONS
(SEE FIGS. 13-16, PAGES 37-40)

MODEL NUMBER YCAL-	WIRE ENCLOSURE	LOUVERED ENCLOSURE	WIRE / LOUVERED ENCLOSURE	LOUVERED ENCLOSURE CONDENSER ONLY
0287 (Top)	475-47327-110	475-47330-110	475-47330-110	475-47330-110
0287 (Bottom)	475-47327-210	475-47330-210	475-47327-210	N/A
0317 (Top)	475-47327-110	475-47330-110	475-47330-110	475-47330-110
0317 (Bottom)	475-47327-210	475-47330-210	475-47327-210	N/A
0347 (Top)	475-47328-112	475-47331-112	475-47331-112	475-47331-112
0347 (Bottom)	475-47328-212	475-47331-212	475-47328-212	N/A
0377 (Top)	475-47328-112	475-47331-112	475-47331-112	475-47331-112
0377 (Bottom)	475-47328-212	475-47331-212	475-47328-212	N/A

*Note: For full kit part numbers see page 34

ENCLOSURE KIT OPTIONS (CONT'D)

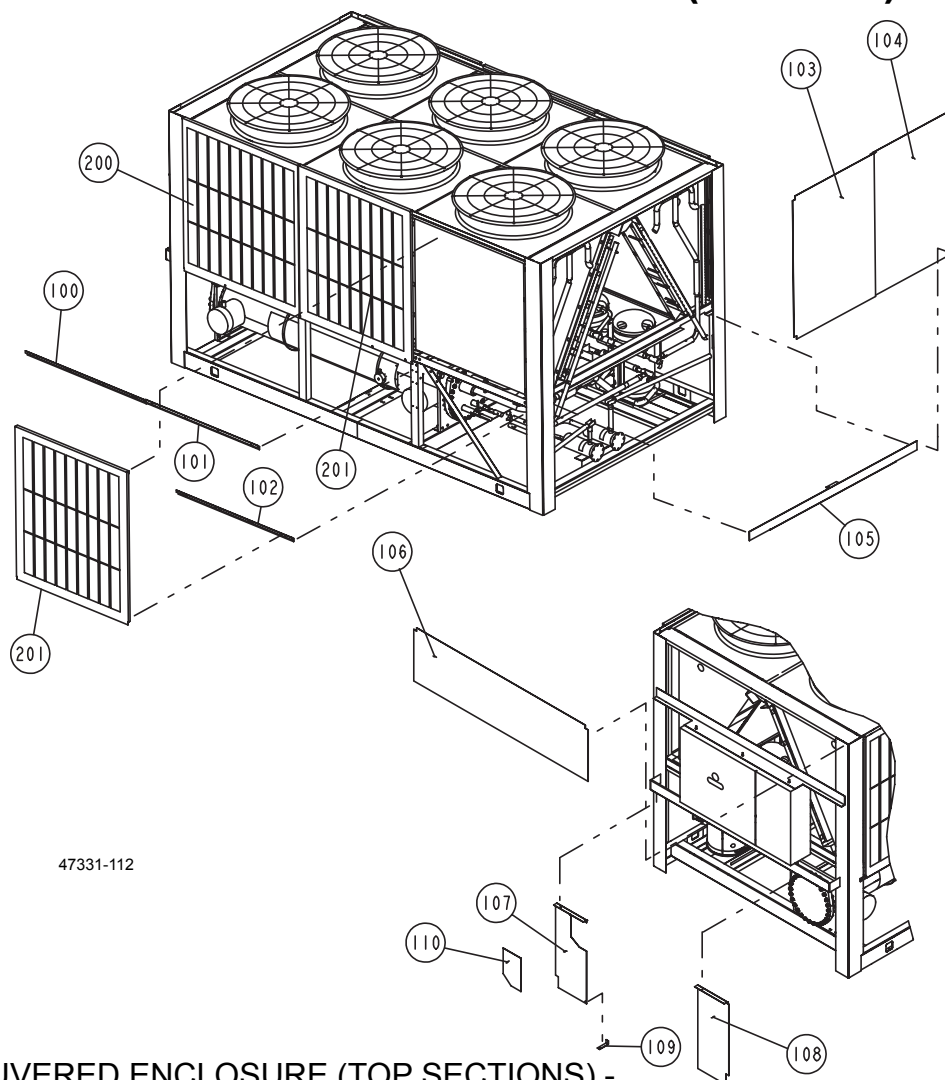


FIG. 13 – LOUVERED ENCLOSURE (TOP SECTIONS) - YCAL0347 AND YCAL0377 SHOWN (REF. TABLE 13)

TABLE 13 – LOUVERED ENCLOSURE (Top Sections) - (SEE FIG. 13)

LOUVERED ENCLOSURE (TOP SECTIONS)		YCAL0287 & YCAL0317		YCAL0347 & YCAL0377	
ITEM #	DESCRIPTION	475-47330-110	QTY	475-47331-112	QTY
100	RAIL	075-44535-000	2	075-47340-000	2
101	Z CHANNEL	075-29073-000	2	075-29589-000	2
102	RAIL	075-44529-000	2	075-47341-000	2
103	PANEL, REAR LH	075-29532-000	1	075-29532-000	1
104	PANEL, REAR RH	075-29533-000	1	075-29533-000	1
105	RAIL, REAR	075-47029-000	1	075-47029-000	1
106	PANEL, FRONT	075-47036-000	1	075-47036-000	1
107	PANEL, FRONT LEFT	075-47026-001	1	075-47026-001	1
108	PANEL, FRONT RIGHT	075-47025-000	1	075-47025-000	1
109	BRACKET	075-47027-000	2	075-47027-000	2
110	PLATE, PANEL	075-47026-002	1	075-47026-002	1
200	PANEL, TOP	075-29068-000	2	075-47345-000	2
201	PANEL, TOP	075-29069-000	4	075-29580-000	4

ENCLOSURE KIT OPTIONS (CONT'D)

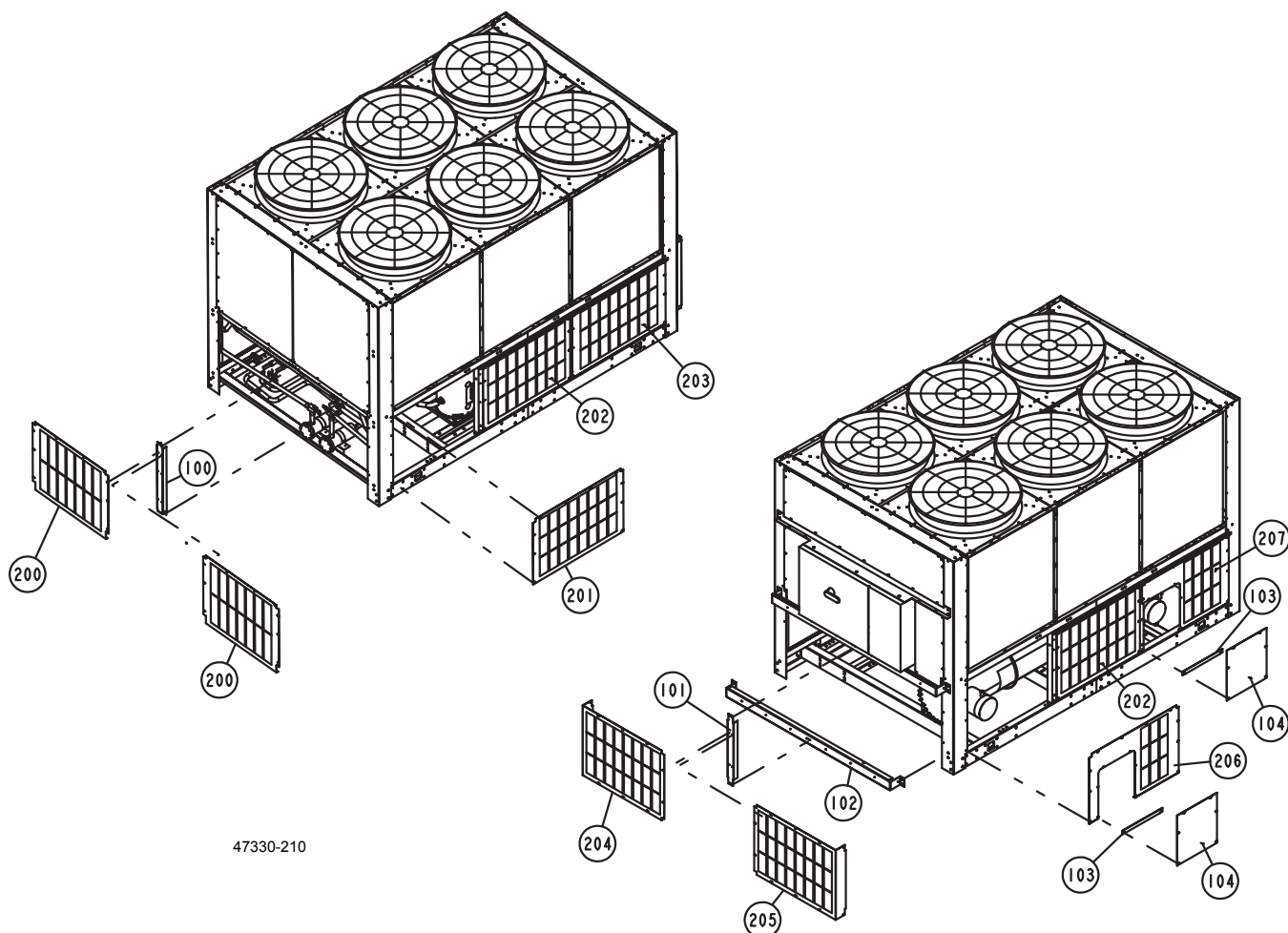


FIG. 14 – LOUVERED ENCLOSURE (BOTTOM SECTIONS)
- YCAL0287 AND YCAL0317 SHOWN (REF. TABLE 14)

TABLE 14 – LOUVERED ENCLOSURE (Bottom Sections) - (SEE FIG. 14)

LOUVERED ENCLOSURE (BOTTOM SECTIONS)		YCAL0287 & YCAL0317		YCAL0347 & YCAL0377	
ITEM #	DESCRIPTION	475-47330-210	QTY	475-47331-212	QTY
100	SUPPORT, REAR	075-47030-000	1	075-47030-000	1
101	SUPPORT	075-47028-000	1	075-47028-000	1
102	BRACE	075-44564-000	1	075-44564-000	1
103	SUPPORT, ANGLE	075-29587-000	2	075-29587-000	2
104	COVER	075-29586-000	2	075-29586-000	2
200	PANEL	075-29585-000	2	075-29585-000	2
201	PANEL	075-35802-000	1	075-47344-000	2
202	PANEL	075-29071-000	2	075-29581-000	1
203	PANEL	075-47022-000	1	075-47346-000	1
204	PANEL, FRONT	075-47035-000	1	075-47035-000	1
205	PANEL, FRONT	075-47034-000	1	075-47034-000	1
206	PANEL	075-45287-000	1	075-47343-000	1
207	PANEL	075-47342-000	1	075-29584-000	1

ENCLOSURE KIT OPTIONS (CONT'D)

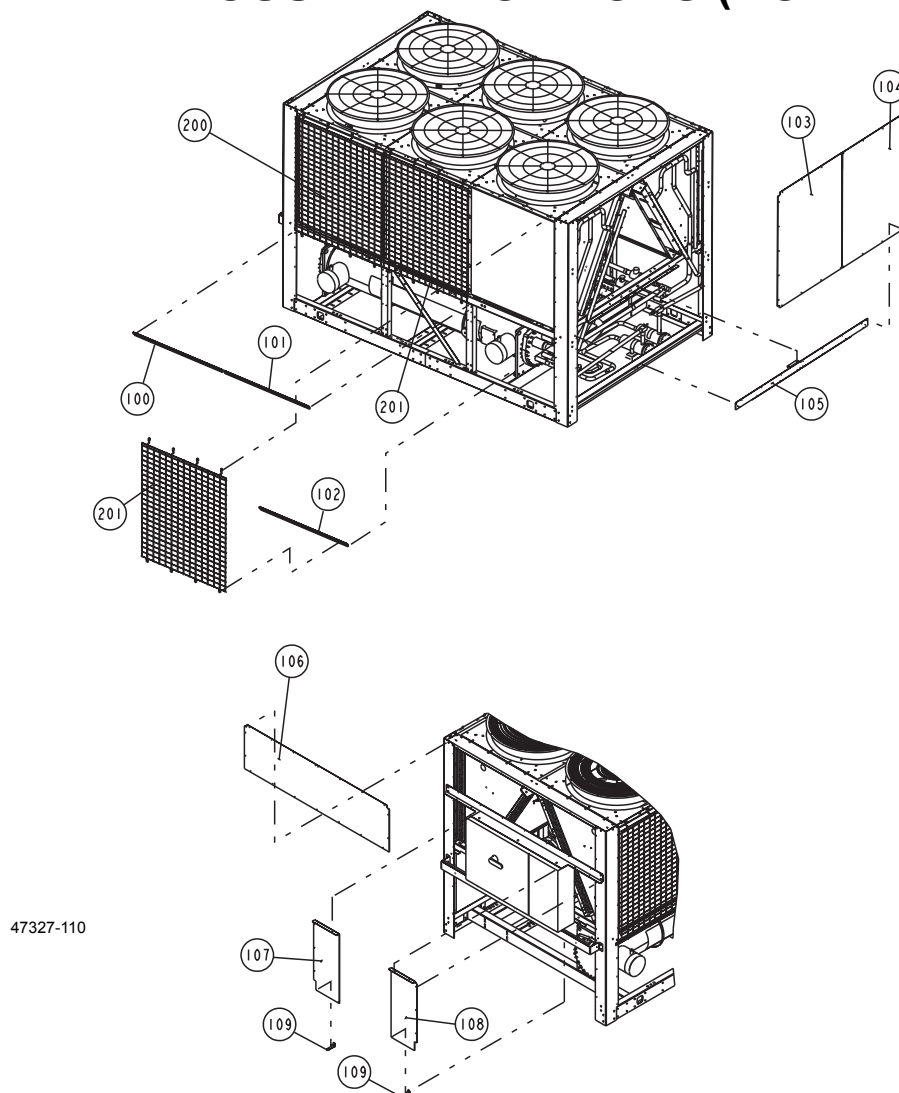
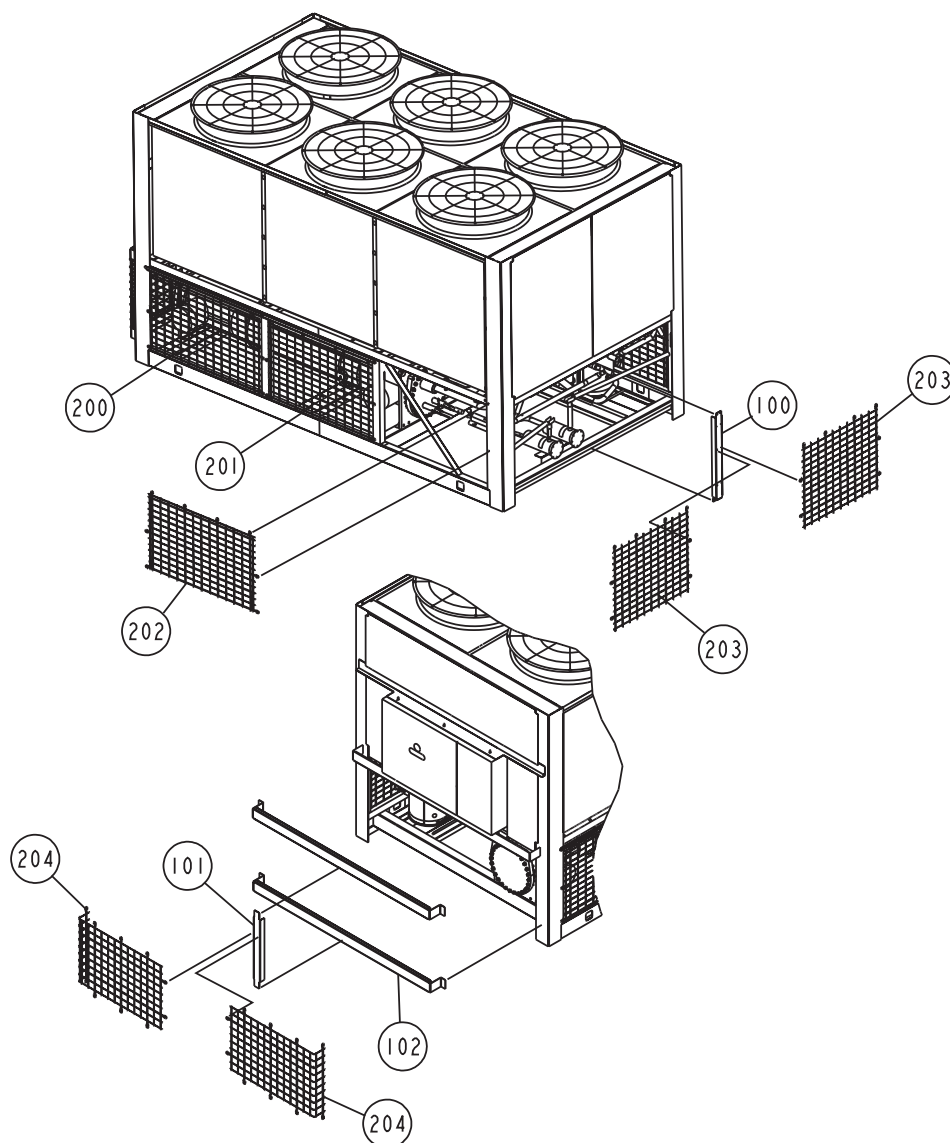


FIG. 15 – WIRE ENCLOSURE (TOP SECTIONS) - YCAL0287 AND YCAL0317 SHOWN (REF. TABLE 15)

TABLE 15 – WIRE ENCLOSURE (Top Sections) - (SEE FIG. 15)

WIRE ENCLOSURE (TOP SECTIONS)		YCAL0287 & YCAL0317		YCAL0347 & YCAL0377	
ITEM #	DESCRIPTION	475-47327-110	QTY	475-47328-112	QTY
100	RAIL	075-44535-000	2	075-47340-000	2
101	Z CHANNEL	075-29073-000	2	075-29589-000	2
102	RAIL	075-44529-000	2	075-47341-000	2
103	PANEL, REAR LH	075-29532-000	1	075-29532-000	1
104	PANEL, REAR RH	075-29533-000	1	075-29533-000	1
105	RAIL, REAR	075-47029-000	1	075-47029-000	1
106	PANEL, FRONT	075-47036-000	1	075-47036-000	1
107	PANEL, FRONT	075-47026-001	1	075-47026-001	1
108	PANEL, FRONT	075-47025-000	1	075-47025-000	1
109	BRACKET	075-47027-000	2	075-47027-000	2
200	GRILLE	026-36770-000	2	026-37949-000	2
201	GRILLE	026-36771-000	4	026-36533-000	4

ENCLOSURE KIT OPTIONS (CONT'D)



47328-212-2

FIG. 16 – WIRE ENCLOSURE (BOTTOM SECTIONS) - YCAL0347 AND YCAL0377 SHOWN (REF. TABLE 16)

TABLE 16 – WIRE ENCLOSURE (Bottom Sections) - (SEE FIG. 16)

WIRE ENCLOSURE (BOTTOM SECTIONS)		YCAL0287 & YCAL0317		YCAL0347 & YCAL0377	
ITEM #	DESCRIPTION	475-47327-210	QTY	475-47328-212	QTY
100	SUPPORT	075-47030-000	1	075-47030-000	1
101	SUPPORT	075-47028-000	1	075-47028-000	1
102	BRACE	075-44564-000	1	075-44564-000	1
200	GRILLE	026-37938-000	2	026-37947-000	2
201	GRILLE, BOTTOM	026-36773-000	2	026-36534-000	2
202	GRILLE, BOTTOM	026-36772-000	2	026-37948-000	2
203	GRILLE, REAR	026-36535-000	2	026-36535-000	2
204	GRILLE	026-37939-000	2	026-37939-000	2

REMOTE CONTROL CENTER

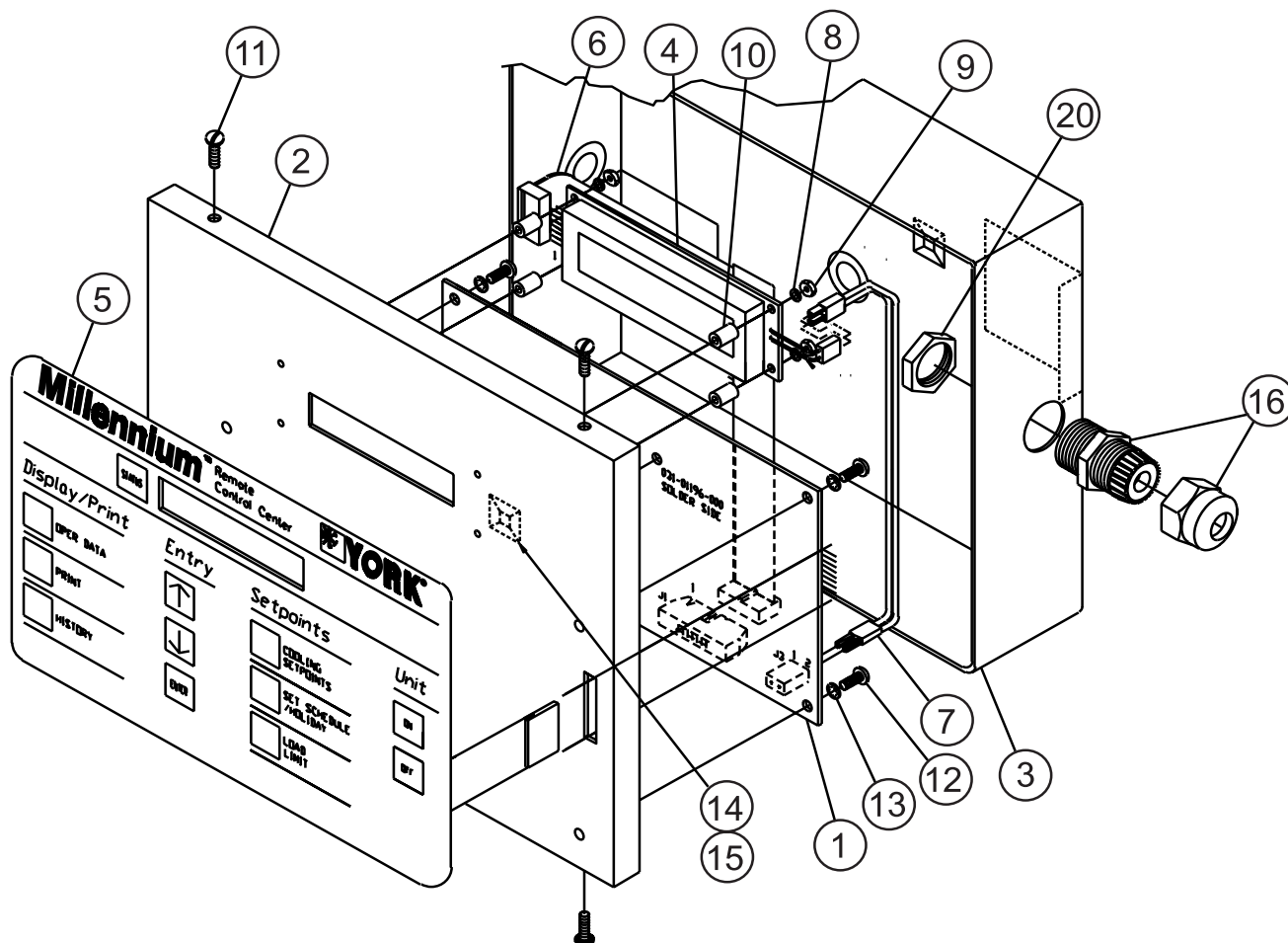


FIG. 17 – REMOTE CONTROL CENTER

TABLE 17 – REMOTE CONTROL CENTER PARTS - 371-02485-104 (50HZ)

ITEM NUMBER	QTY	DESCRIPTION	PART NUMBER
1	1	CONTROL, MICROBOARD	031-01196-000
2	1	COVER, REMOTE CONTROL	371-02485-311
3	1	BASE, REMOTE CONTROL	071-02485-320
4	1	DISPLAY, LCD	031-01110-000
5	1	SWITCH, KEYPAD	024-30930-000
6	1	RIBBON CABLE	071-01289-211
7	1	WIRE CABLE	071-01289-212
10	4	SPACER, NYLON 1/4 OD X 7/16 LONG	021-17575-000
11	1	TRANSFORMER	025-29917-002
14	3	CABLE TIE	025-25155-000
15	1	EPROM	031-02016-003
16	1	CABLE FITTING	025-05701-000
17	2	INSULATOR, RECIPAK ROOFTOP	071-01730-000
18	2	MODULE, LAN TRANSIENT PROTECTION (LTP)	031-01586-000
19	1	INSTALLATION INSTRUCTIONS	071-01289-002
20	1	NUT, LOCKING, HEYCO - 3232	025-31732-000
21	1	OPERATOR'S MANUAL	150.62-NM1

REMOTE CURRENT/TEMPERATURE RESET PARTS BREAKDOWN

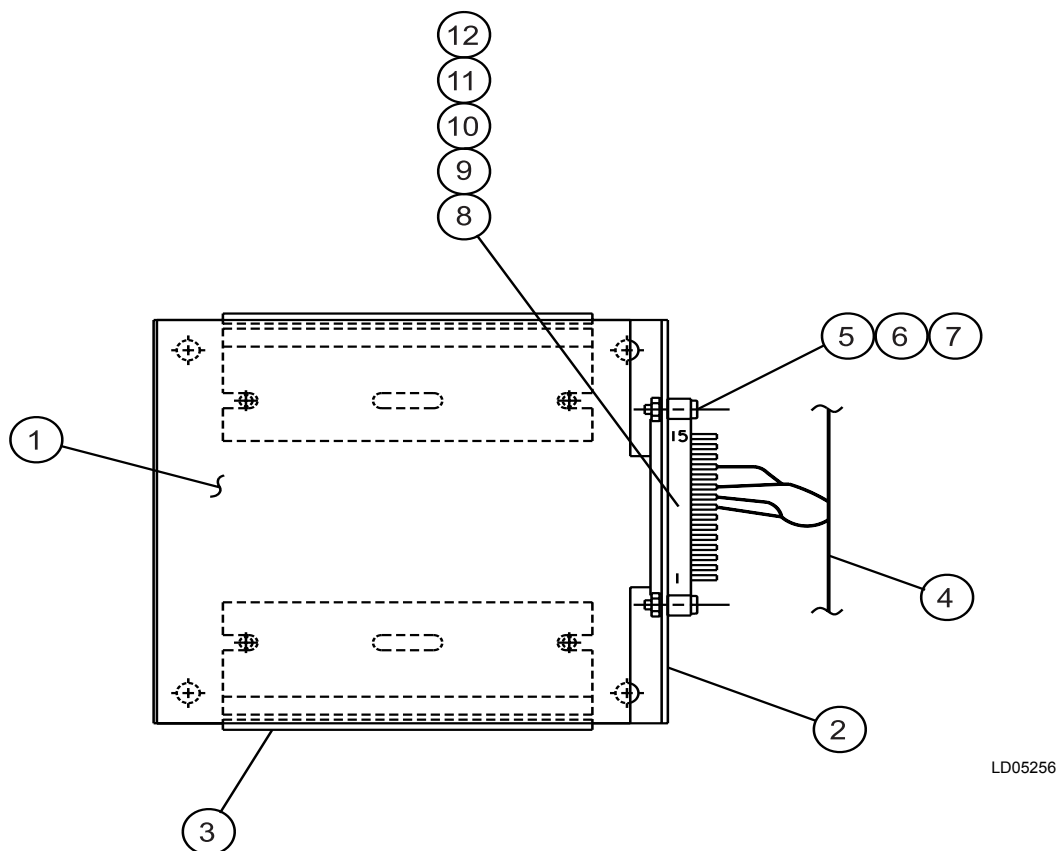


FIG. 18 – REMOTE CURRENT/TEMPERATURE RESET COMPONENTS

TABLE 18 – REMOTE CURRENT OR TEMPERATURE RESET KIT NUMBER 375-90914-000

ITEM NUMBER	QTY	DESCRIPTION	PART NUMBER
1	1	CONTROL, REMOTE CURRENT/TEMPERATURE	031-00814-000
2	1	BRACKET, REMOTE CURRENT/TEMPERATURE RESET	371-01232-361
3	1	TRACK, SNAP	071-01232-363
4	1	WIRING, REMOTE CURRENT/ TEMPERATURE RESET	571-02492-231*
5	2	SCREW, MACHINE PAN HEAD #4	021-17594-000
6	2	NUT, HEX #4-40UNC-2B	021-10056-000
7	2	LOCKWASHER, HELICAL SPRING #4 REG.	021-17576-000

* Refer to **Table 18A**

TABLE 18A – REMOTE RESET WIRING

ITEM NUMBER	QTY	DESCRIPTION	PART NUMBER
8	2	CONTROL, SOC AWG WIRE SIZE 20	025-19674-000
9	2	TERMINAL PUSH ON STRAIGHT	025-06642-000
10	4	TUBING HEAT SHRINKABLE 1/8 ID	025-29632-000
11	1	HGS CONNECTOR ELECTRICAL PLUG	025-32564-000*
12	1	CONNECTOR EDGE, 15 POSITION, 0.125	025-29631-000

RECOMMENDED SPARE PARTS

York Model YCAL Style C Air Cooled Liquid Chillers
Suggested Spare Parts List for Critical Duty Applications

TABLE 19 – RECOMMENDED SPARE PARTS - YCAL0287-YCAL0377 CHILLERS

PAGE REF. & ITEM NUMBER	DESCRIPTION	MODEL NUMBER YCAL	PART NUMBER
Page 9, Item 1	Fan Motor (Standard)	-50	024-30900-001
Page 9, Item 1	Fan Motor (Low Noise)	-50	024-30933-001
Page 9, Item 2	Fan Blade (Standard)	All	026-37577-000
	Fan Blade (Low Noise)	All	026-37579-000
Page 11 and 12, Item 1	Valve, Electronic Expansion	See Table 4	025-37835-000
			025-37836-000
			025-35952-000
Page 11 and 12, Item 3	Core, Dehydrator	All	026-37540-000
Page 16, Item OIL	Oil, Compressor (Type 'F')	R-22	011-00434-000
	Oil, Compressor (Type 'V')	407-C	011-00937-000
Page 19, Item 5A	Microboard	All	031-02050-001
Page 19, Item 5B	EPROM	All	031-02423-001
Page 19, Item 10B	Fuse	All	025-34142-000
Page 22-29, Item 2B	Fan Overload	See TABLE 7	024-32934-000
			024-32935-000
			024-32936-000
			024-34298-000
Page 22-29, Item 2D	Fan Contactor	See TABLE 7	024-32929-000
			024-32930-000
Page 32, Item 1	Sensor, Outside Air Temperature	All	025-28663-001
Page 32, Item 3	Switch, High Pressure Cutout	All	025-28985-002
Page 32, Item 4	Switch, Low Pressure Cutout	All	025-33707-000
Page 32, Item 6	Transducer, Suction Pressure (0-200psi)	All	025-29583-000
Page 32, Item 7	Transducer, Discharge Pressure (0-400psi)	All	025-29139-001

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

