



MILLENNIUM®
AIR-COOLED LIQUID CHILLERS
HERMETIC SCROLL 50 HZ

RENEWAL PARTS

Supersedes: 150.62-RP2 (700)

Form: 150.62-RP2 (601)

MODELS YCAL0043SC THROUGH YCAL0253SC



29302A

10 - 70 TON
35 - 246 Kw
50 Hz



315/460-3-50
MODELS ONLY

TABLE OF CONTENTS

	<u>PAGE</u>
UNIT NOMENCLATURE NAMEPLATE ENGINEERING DATA	3
EVAPORATOR	
EVAPORATOR COMPONENTS	4
CONDENSER	
CONDENSER COIL COMPONENTS	6
FAN	
FAN COMPONENTS	8
PIPING	
REFRIGERANT AND OIL PIPING COMPONENTS	10
COMPRESSOR	
COMPRESSOR	14
CONTROL AND POWER PANELS	
CONTROL PANEL AND POWER PANEL	18
TRANSDUCERS, PRESSURE CUTOUTS AND TEMP SENSORS	30
WIRE HARNESS CONNECTORS - FIELD REPLACEMENT PART NUMBERS	31
CHILLER OPTIONS	
YCAL CHILLER OPTIONS - KITS	32
ENCLOSURE KIT OPTIONS	34
REMOTE CONTROL CENTER	36
REMOTE CURRENT/TEMPERATURE RESET PARTS BREAKDOWN	37
RECOMMENDED SPARE PARTS	38

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

YCAL0173SC50XAA

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	: YORK : Chiller : Air Cooled L : Scroll	#	#	#	#	S R	C :R-22 B :R-407C	5	0	:380-415/3/50	A	A	
				Tons/Kw 0043 to 0253				Standard Unit Heat Pump					:Design Series A :Engineering Change or PIN Level		
										X :Across the Line					

PART NUMBER – LETTER CODES

16171819

POWER FIELD

X	X	:	MP Supply TB
S	X	:	SP Supply TB
S	D	:	SP NF Disconnect Switch
B	X	:	SP Circuit Breaker w/ Lockable Handle
	T	:	Control Transformer (factory)
	C	:	Power Factor Capacitor

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

20 21 22 23 24 25 26 27 28

CONTROLS FIELD

Item	Code	Description
	L	: Low Ambient Kit (factory)
	H	: High Ambient Kit (factory)
	A	: Both Low / High Ambient (factory)
	T	: BAS/EMS Temp. Reset / Offset
	S	: Spanish LCD & Keypad Display
	F	: French LCD & Keypad Display
	G	: German LCD & Keypad Display
	R	: Discharge Pressure Transducers / Readout Kit
	S	: Suction Pressure Transducers / Readout Kit
	B	: Both Discharge & Suction Pressure Transducers / Readout
	L	: N. American Safety Code (c.U.L./cETL)
	N	: No Listing (typically 50 HZ non-CE, non-U.L.)
	R	: Remote Control Panel
	S	: Sequence Control & Automatic Lead Transfer

29 30 31 32 33 34 35 36 37

COMPRESSOR / PIPING FIELD

The diagram shows a 12-position terminal block with the following labels:

- Position 1: # T
- Position 2: # S
- Position 3: C
- Position 4: (Empty)
- Position 5: 1
- Position 6: (Empty)
- Position 7: (Empty)
- Position 8: (Empty)
- Position 9: (Empty)
- Position 10: (Empty)
- Position 11: (Empty)
- Position 12: (Empty)

Additional labels on the right side of the diagram:

- :Low Temp. Brine (LBrT)
- :Thermal Storage
- :Chicago Relief Code
- :Hot Gas By-Pass (# circuits)

38 39 40 41 42 43 44

EVAP. FIELD

3	:	300 PSIG DWP Waterside
D	:	Double Thick Insulation
W	:	Weld Flange Kit
S	:	Flow Switch
A	:	ASME Pressure Vessel & Associated Codes
R	:	Remote DX Cooler

55

EXTENDED FIELD

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

4546 47

CONDENSER FIELD

X : Aluminum
C : Copper
B : Black Fin
P : Phenolic
X : TEAO Fan Motors

48 49 50 51 52 53 54

CABINET FIELD

X : Wire Condenser Headers Only (factory)

1 : Wire (Full Unit) Enc. Panels (factory)

2 : Wire (Full Unit) Enc. Panels (field)

3 : Wire/Louvered Enc. Panels (factory)

4 : Wire/Louvered Enc. Panels (field)

5 : Louvered (Cond. Only) Enc. Panels (factory)

6 : Louvered (Cond. Only) Enc. Panels (field)

7 : Louvered (Full Unit) Enc. Panels (factory)

8 : Louvered (Full Unit) Enc. Panels (field)

B : Acoustic Sound Blanket

L : Low Sound Fans

1 : 1" Deflection

S : Seismic

N : Neoprene Pads

NOTES:

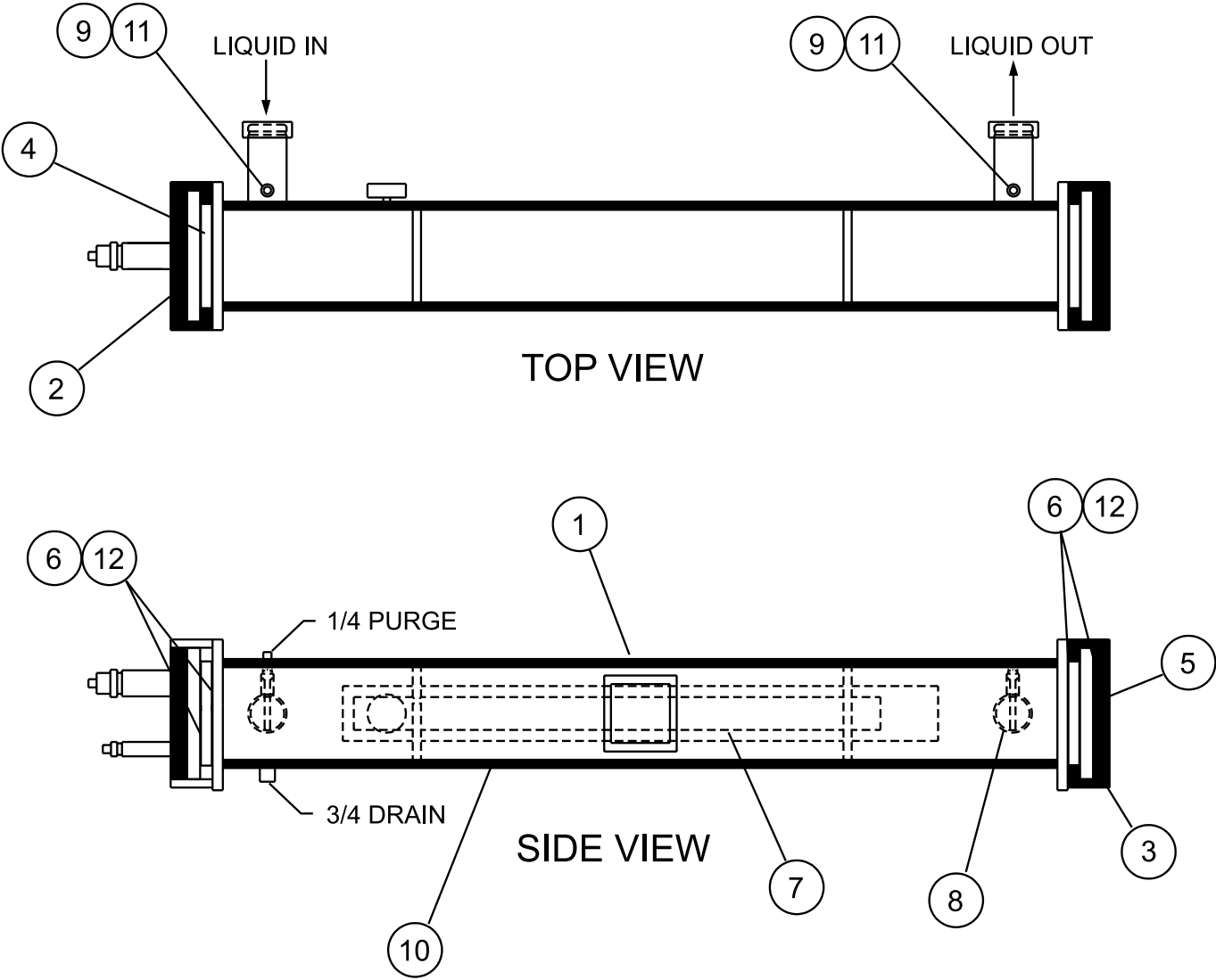
1. O :DENOTES SPECIAL / S.O.

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.

EVAPORATOR COMPONENTS



30968-000

FIG. 1 –EVAPORATOR COMPONENTS - MODELS YCAL0043 AND YCAL0057 SHOWN
(REF. TABLE 1, PAGE 5)

EVAPORATOR COMPONENTS (CONT'D)

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

ITEM NUMBER	QTY. PER UNIT	DESCRIPTION	DWP	UNIT MODEL YCAL0043 AND 0057	UNIT MODEL YCAL0073	UNIT MODEL YCAL0087
1	1	Cooler, less Heater & Insulation (Items 2 thru 6)	ALL	375-30900-000 (8" X 78")	375-30961-000 (8" X 84")	375-44207-000 (8" X 90")
2	1	Head, Conn. End	ALL	375-31714-000	375-31714-000	375-44209-000
3	1	Head, Back End	ALL	075-31716-000	075-31716-000	075-31716-000
4	1	Baffle, Pass, Conn. End	ALL	376-60141-000	376-60141-000	375-26454-000
5	1	Baffle, Pass, Back End	ALL	076-60140-000	076-60140-000	075-26456-000
6	8	Gasket, Pass Baffle and Head	ALL	075-38540-000	075-38540-000	075-38537-000
7	1	Heater, Cooler 180 Watt	ALL	025-27995-001	025-27995-001	025-27995-001
8	2	Connector, Water	ALL	375-38535-000	375-38535-000	375-38535-000
9	1	Well, Thermo	ALL	026-37512-000	026-37512-000	026-37512-000
10	2	Insulation (3/4" x 49" x 65")	ALL	010-05997-000	010-05997-000	010-05997-000
11	1	Sensor, Water Temp.	ALL	025-29964-000	025-29964-000	025-29964-000
12	1	Adhesive (Use with #6)	ALL	013-02293-000	013-02293-000	013-02293-000

ITEM NUMBER	QTY. PER UNIT	DESCRIPTION	DWP	UNIT MODEL YCAL0107	UNIT MODEL YCAL0117 AND 0133	UNIT MODEL YCAL0147, 0157 AND 0173
1	1	Cooler, less Heater & Insulation (Items 2 thru 6)	150	375-25876-000 (10" x 90")	375-36066-000 (12" x 104")	375-30900-000 (12" x 104")
2	2	Head, Conn. End	ALL	375-25883-000	375-37895-000	375-37895-000
3	1	Head, Back End	ALL	375-25886-000	075-37892-000	075-37892-000
4	1	Baffle, Pass, Conn. End	ALL	375-25879-000	075-37853-000	075-37853-000
5	1	Baffle, Pass, Back End	ALL	075-25882-000	075-37854-000	075-37854-000
6	8	Gasket, Pass Baffle and Head	ALL	075-38531-000	075-37856-000	075-37856-000
7	2	Heater, Cooler 280 Watt	ALL	025-27995-002	025-22691-000	025-22691-000
8	1	Connector, Water	ALL	375-38529-000	375-37891-000	375-37891-000
9	1	Bulb, Well	ALL	026-32328-000	026-32328-000	026-32328-000
10	2.5	Insulation (3/4" x 49" x 65")	ALL	010-05997-000	010-05997-000	010-05997-000
11	1	Sensor, Water Temp.	ALL	025-29964-000	025-29964-000	025-29964-000
12	1	Adhesive (Use with #6)	ALL	013-02293-000	013-02293-000	013-02293-000

ITEM NUMBER	QTY. PER UNIT	DESCRIPTION	DWP	UNIT MODEL YCAL-0197, -0217 AND -0237	UNIT MODEL YCAL-0253
1	1	Cooler, less Heater & Insulation (Items 2 thru 6)	150	375-38501-000 (15" x 105")	375-37898-000 (15" x 105")
2	2	Head, Conn. End	ALL	375-38519-000	375-38114-000
3	1	Head, Back End	ALL	075-38518-000	075-38518-000
4	1	Baffle, Pass, Conn. End	ALL	375-38509-000	375-38105-000
5	1	Baffle, Pass, Back End	ALL	375-38514-000	375-38110-000
6	8	Gasket, Pass Baffle and Head	ALL	075-38517-000	075-38118-000
7	2	Heater, Cooler 420 Watt	ALL	025-22692-000	025-22692-000
8	1	Connector, Water	ALL	375-38507-000	375-38507-000
9	1	Bulb, Well	ALL	026-32328-000	026-32328-000
10	3	Insulation (3/4" x 49" x 65")	ALL	010-05997-000	010-05997-000
11	1	Sensor, Water Temp.	ALL	025-29964-000	025-29964-000
12	1	Adhesive (Use with #6)	ALL	013-02293-000	013-02293-000

CONDENSER COIL COMPONENTS

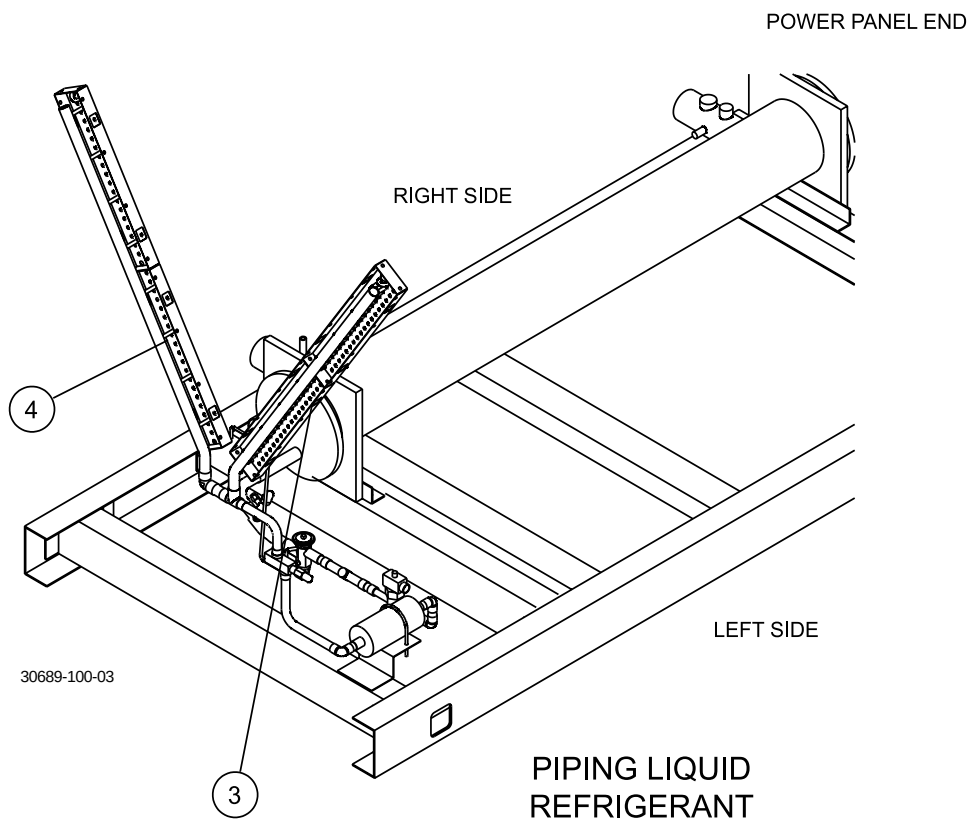
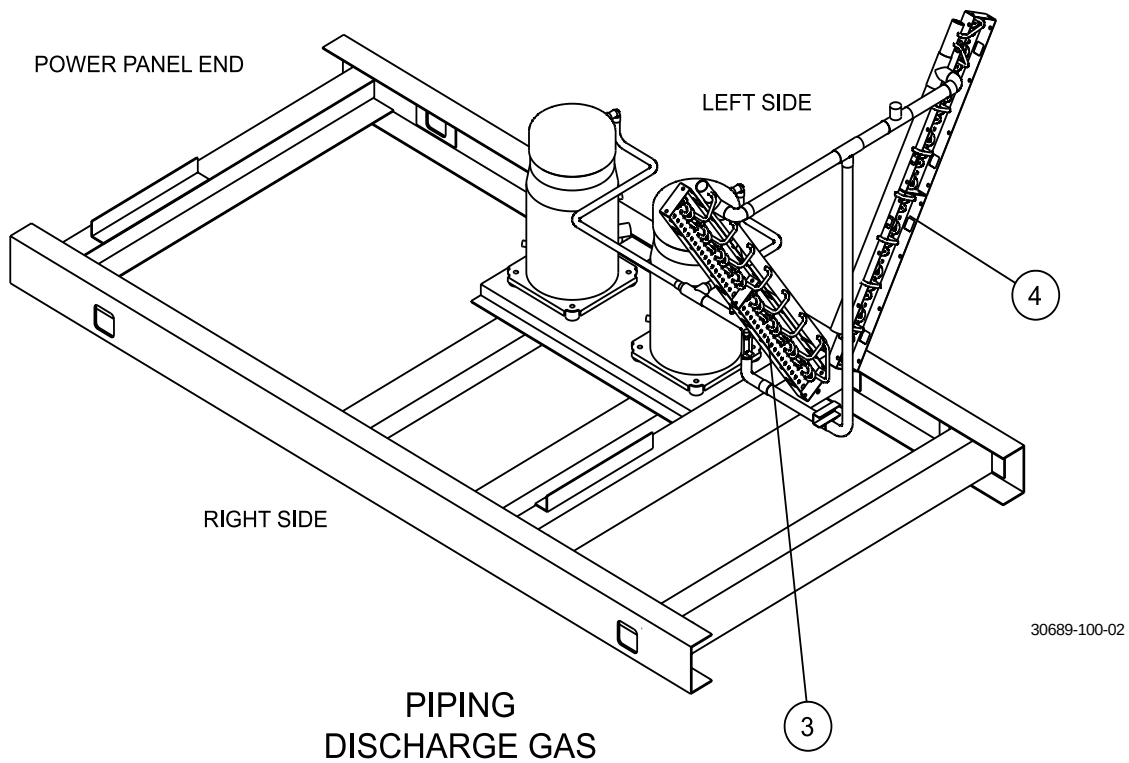


FIG. 2 – CONDENSER COIL LAYOUT (REF. TABLE 2, PAGE 7)

Headers for each circuit are denoted left and right as viewed from power panel end of chiller.

CONDENSOR COIL COMPONENTS (CONT'D)

TABLE 2 – CONDENSER COILS – YCAL0043, 0057, 0073 AND YCAL0087 (SEE FIG. 2, PAGE 6)

Item Number	Description	Position	Qty	YCAL0043 & YCAL0057	YCAL0073	YCAL0087
1	Header, Liquid	Right	2	375-31225-000	375-30685-000	375-25897-000
2	Header, Liquid	Left	2	375-31226-000	375-30686-000	375-25894-000
3	Header, Discharge	Right	2	375-31223-000	375-30683-000	375-30607-000
4	Header, Discharge	Left	2	375-31224-000	375-30684-000	375-30608-000
ALUMINUM FIN COILS						
5	Coils (Not Shown)	Both	4	375-30636-100	375-30675-100	375-30603-200
BLACK FIN COILS						
5	Coils (Not Shown)	Both	4	375-30957-100	375-30958-100	375-30959-200
PHENOLIC COILS						
5	Coils (Not Shown)	Both	4	375-30970-100	375-30971-100	375-30972-200
COPPER COILS						
5	Coils (Not Shown)	Both	4	375-30793-100	375-30974-100	375-30795-200

TABLE 2 – CONDENSER COILS – YCAL0107, 0117, 0133, 0147, 0157, AND YCAL0173 (SEE FIG. 2, PAGE 6)

Item Number	Description	Position	Qty	YCAL0107	YCAL0117, 0133 0147 & YCAL0157	YCAL0173
1	Header, Liquid	Right	2	375-25897-000	375-30626-000	375-30766-000
2	Header, Liquid	Left	2	375-25894-000	375-30627-000	375-30767-000
3	Header, Discharge	Right	2	375-30607-000	375-30619-000	375-30764-000
4	Header, Discharge	Left	2	375-30608-000	375-30620-000	375-30765-000
ALUMINUM FIN COILS						
5	Coils (Not Shown)	Both	4	375-30603-100	375-30615-100	375-30751-100
BLACK FIN COILS						
5	Coils (Not Shown)	Both	4	375-30959-100	375-30408-100	375-30944-100
PHENOLIC COILS						
5	Coils (Not Shown)	Both	4	375-30972-100	375-30409-100	375-30945-100
COPPER COILS						
5	Coils (Not Shown)	Both	4	375-30795-100	375-30410-100	375-30946-100

TABLE 2 – CONDENSER COILS – YCAL0197, 0217, 0237, AND YCAL0253 (SEE FIG. 2, PAGE 6)

Item Number	Description	Position	Qty	YCAL0197	YCAL0217	YCAL0237	YCAL0253
1	Header, Liquid	Right	4	375-30669-000	375-30669-000	375-30447-000	375-30447-000
2	Header, Liquid	Left	4	375-30668-000	375-30668-000	375-30446-000	375-30446-000
3	Header, Discharge	Right	4	375-30663-000	375-30663-000	375-25897-000	375-25897-000
4	Header, Discharge	Left	4	375-30662-000	375-30662-000	375-25894-000	375-25894-000
ALUMINUM FIN COILS							
5	Coils (Not Shown)	Both	8	375-30778-100	375-30778-200	375-25892-200	375-25897-100
BLACK FIN COILS							
5	Coils (Not Shown)	Both	8	375-30947-100	375-30947-200	375-25956-200	375-25956-100
PHENOLIC COILS							
5	Coils (Not Shown)	Both	8	375-30948-100	375-30948-200	375-30954-200	375-30954-100
COPPER COILS							
5	Coils (Not Shown)	Both	8	375-30949-100	375-30949-200	375-30955-200	375-30955-100

FAN COMPONENTS

Service Note:

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

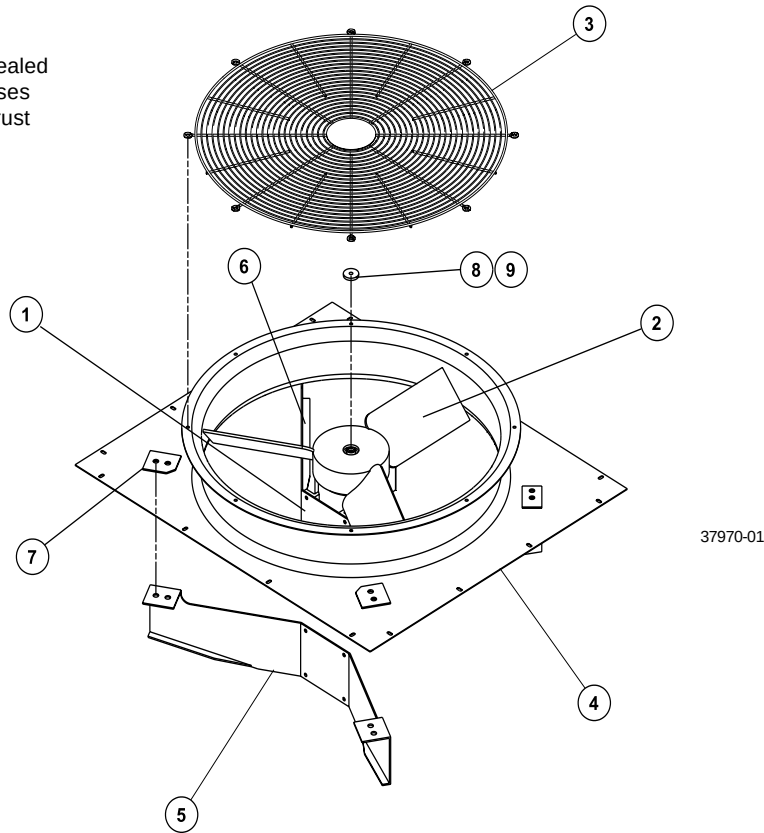


FIG. 3 – FAN COMPONENTS

Service Note: Pin Location 52 in Model Number will be "X" for Standard Fan, or "L" for Low Noise Fan. See page 5.

TABLE 3 – FAN COMPONENTS

ITEM NUMBER	DESCRIPTION	VOLTAGE CODE	FAN TYPE	
			STANDARD 7/8" Ø SHAFT, 967 RPM	LOW NOISE (OPTIONAL) 7/8" Ø SHAFT, 704 RPM
^s 1	Motor, Fan (YCAL0043-YCAL0253)	-50	024-30900-001	024-30933-001
^s 2	Blade, (YCAL0043-YCAL0173) Blade, (YCAL0197-YCAL0253)	ALL	026-36579-000 026-35392-000	026-36579-000 026-36531-000
3	Guard, (YCAL0043-YCAL0173) Guard, (YCAL0197-YCAL0253)	ALL	026-37521-001 026-35605-001	026-37521-001 026-35605-002
4	Orifice, (YCAL0043-YCAL0173) Orifice, (YCAL0197-YCAL0253)	ALL	026-37520-000 026-36141-000	
5	Support (YCAL0043-YCAL0173) Support (YCAL0197-YCAL0253)	ALL	075-25413-018 075-25584-000	
6	Support (YCAL0043-YCAL0173) Support (YCAL0197-YCAL0253)	ALL	075-25413-019 075-25583-000	
7	Plate, Reinf. (YCAL0043-YCAL0173) Plate, Reinf. (YCAL0197-YCAL0253)	ALL ALL	075-25413-023 075-25413-024	
8	Screw, Cap	ALL	021-18494-000	
9	Spacer, Fan Motor	ALL	075-29007-000	

^s= Recommended Spare Parts

This page intentionally left blank

REFRIGERANT AND OIL PIPING COMPONENTS
CHILLER MODEL YCAL - STYLE SC

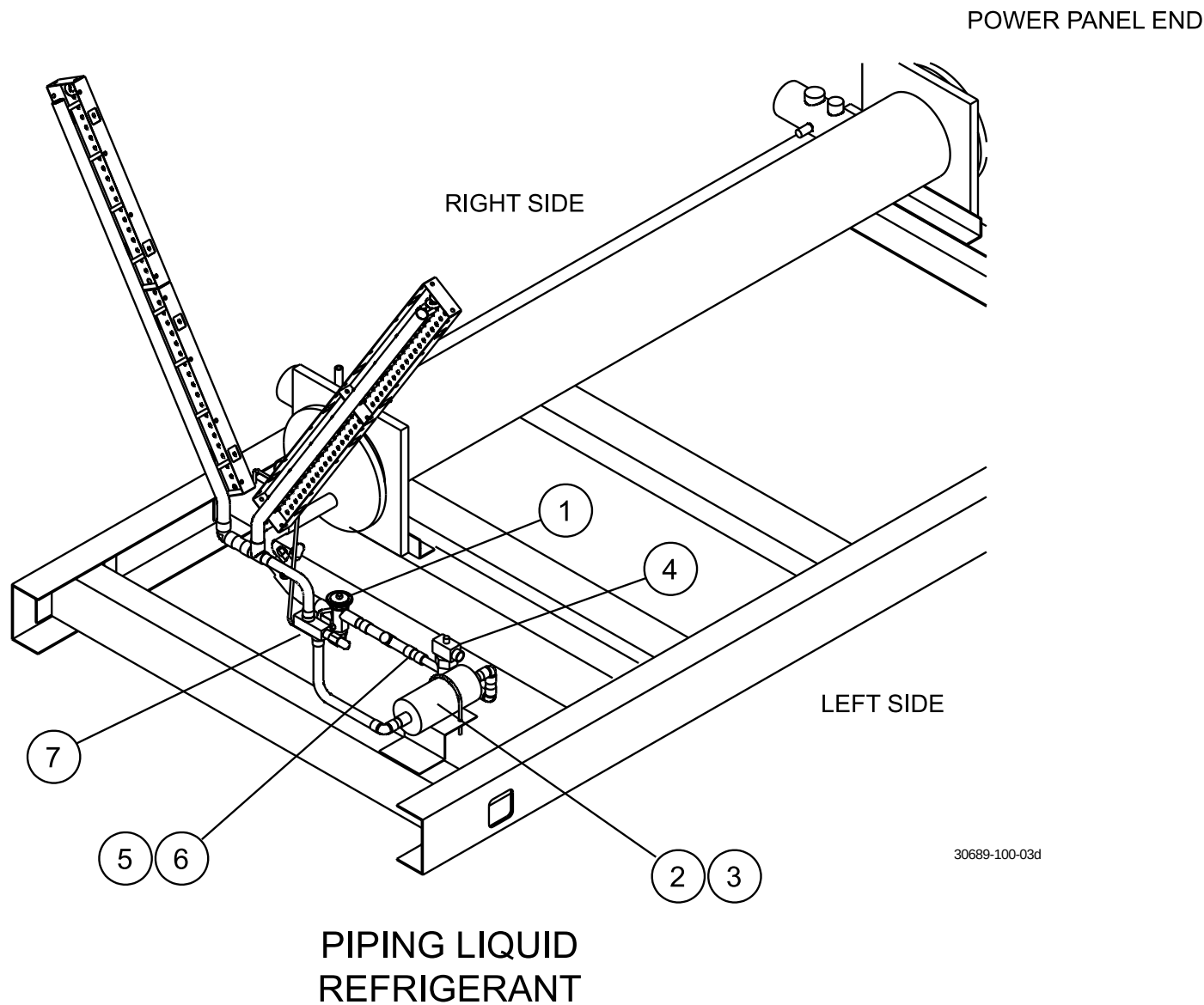


FIG. 4 – REFRIGERANT AND OIL PIPING COMPONENTS - MODELS YCAL0043, 0057, 0073 AND 0087 SHOWN (REF. TABLE 4, PAGES 12 AND 13)

REFRIGERANT AND OIL PIPING COMPONENTS (CONT'D)
CHILLER MODEL YCAL - STYLE SC

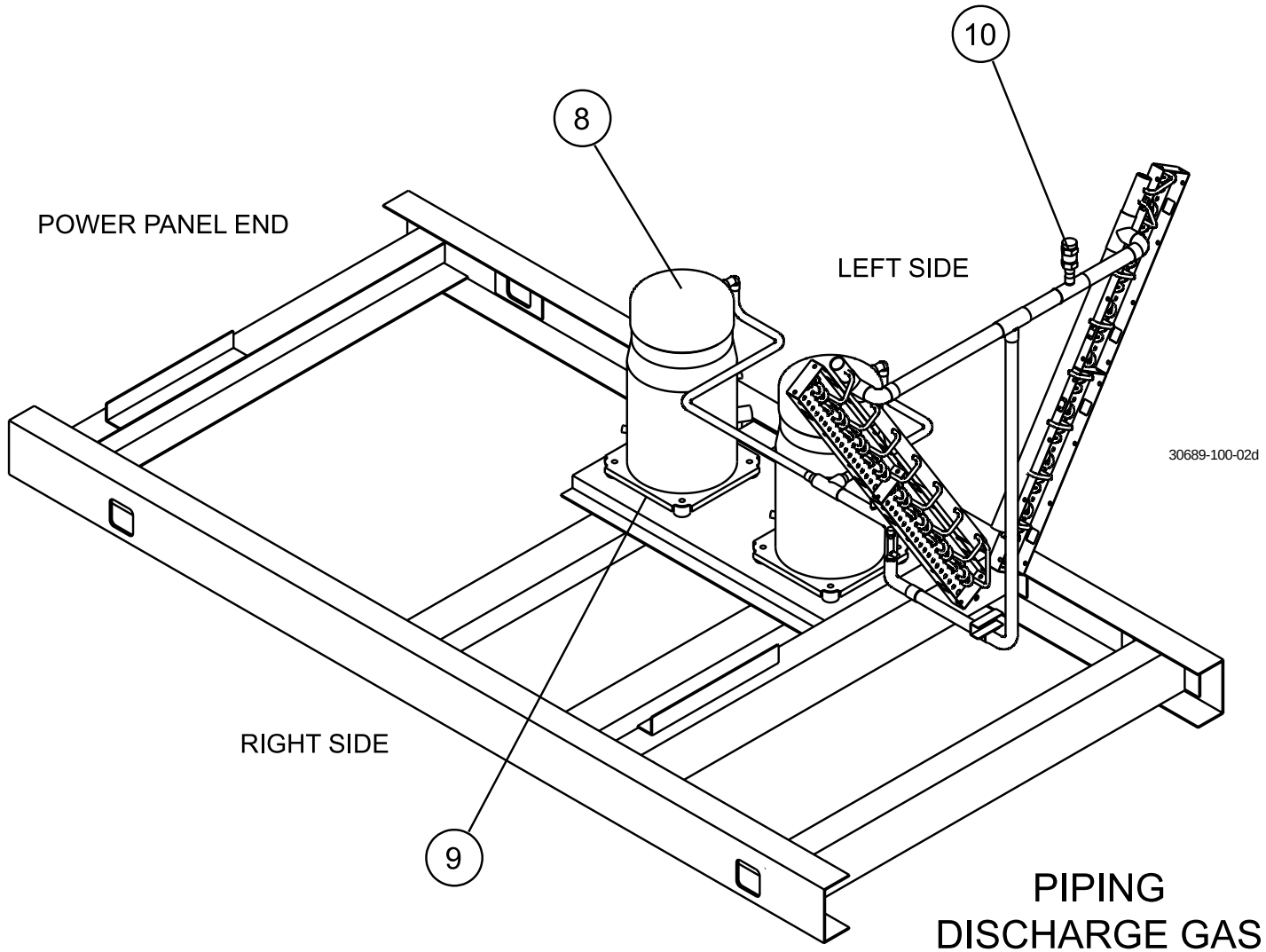


FIG. 5 – REFRIGERANT AND OIL PIPING COMPONENTS - MODELS YCAL0043, 0057, 0073 AND 0087 SHOWN (REF. TABLE 4, PAGES 12 AND 13)

REFRIGERANT AND OIL PIPING COMPONENTS (CONT'D)

CHILLER MODEL YCAL – STYLE SC

TABLE 4 – REFRIGERANT PIPING AND OIL PIPING COMPONENTS
(SEE FIGS. 4 AND 5, PAGES 10 AND 11)

ITEM NO.	SYSTEM	DESCRIPTION	YCAL0043 - YCAL0057	YCAL0073	YCAL0087	YCALS0107
1 ^s	1	Valve, Thermal Expansion	025-27535	025-27536	025-20213	025-20213
	2		N/A	N/A	N/A	N/A
2	Both	Drier, Sealed Type	026-35634	026-35634	026-36510	026-36510
3	N/A	N/A	N/A	N/A	N/A	N/A
4 ^s	1	Valve, Solenoid, Liq. Line	025-31771	025-33236	025-33236	025-31771
	2		N/A	N/A	N/A	N/A
5	1	Moisture Indicator, Body	026-15305	026-15305	026-15305	026-15305
	2		N/A	N/A	N/A	N/A
6	Both	Moisture Indicator, Sight Glass, Cap Assembly	N/A	N/A	N/A	N/A
7	1	Valve, Liquid Stop	022-02992	022-02992	022-02992	022-02992
	2		N/A	N/A	N/A	N/A
8	Both	Compressor	See Page 16 for Compressor Part Numbers			
9	Both	Isolator Kit, Compressor	5710029P03	5710029P03	5710029P03	5710029P03
10	Both	Valve, Relief	022-08863	022-08863	022-08863	022-08863

^s Recommended Spare Part

ITEM NO.	SYSTEM	DESCRIPTION	YCAL0117	YCAL0133	YCAL0147	YCALS0157
1 ^s	1	Valve, Thermal Expansion	025-20213	025-27536	025-20213	025-20213
	2		025-27535	N/A	025-27536	025-20213
2	Both	Drier, Sealed Type	026-20145	026-20145	026-20145	026-20145
3	N/A	N/A	N/A	N/A	N/A	N/A
4 ^s	1	Valve, Solenoid, Liq. Line	025-31771	025-33236	025-31771	025-31771
	2		N/A	N/A	025-31771	025-31771
5	1	Moisture Indicator, Body	026-15305	026-15305	026-15305	026-15305
	2		N/A	N/A	026-15305	026-15305
6	Both	Moisture Indicator, Sight Glass, Cap Assembly	N/A	N/A	N/A	N/A
7	1	Valve, Liquid Stop	022-02992	022-02992	022-02992	022-02992
	2		N/A	N/A	022-02992	022-02992
8	Both	Compressor	See Page 16 for Compressor Part Numbers			
9	Both	Isolator Kit, Compressor	5710029P03	5710029P03	5710029P03	5710029P03
10	Both	Valve, Relief	022-08863	022-08863	022-08863	022-08863

^s Recommended Spare Part

REFRIGERANT AND OIL PIPING COMPONENTS (CONT'D)

CHILLER MODEL YCAL – STYLE SC

TABLE 4 (CONT'D) – REFRIGERANT PIPING AND OIL PIPING COMPONENTS
(SEE FIGS. 4 AND 5, PAGES 10 AND 11)

ITEM NO.	SYSTEM	DESCRIPTION	YCAL0173	YCAL0197 - YCAL0217	YCAL0237	YCAL0253
1^s	1	Valve, Thermal Expansion	025-20213	025-20213	025-32904	025-32904
	2		025-20213	025-20213	025-32904	025-32904
2	Both	Drier, Sealed Type	026-20145	026-20145	N/A	N/A
	Both	Dehydrator, Core Type	N/A	N/A	026-30598	026-30598
3^s	Both	Dehydrator Core	N/A	N/A	026-18328	026-18328
4^s	1	Valve, Solenoid, Liq. Line	025-31771	025-33236	025-33236	025-33236
	2		025-31771	025-33236	025-33236	025-33236
5	1	Moisture Indicator, Body	026-15305	026-32397	026-32397	026-32397
	2		026-15305	026-32397	026-32397	026-32397
6	Both	Moisture Indicator, Sight Glass, Cap Assembly	N/A	026-32800	026-32800	026-32800
7	1	Valve, Liquid Stop	022-02992	025-10510	025-10510	025-10510
	2		022-02992	025-10510	025-10510	025-10510
8	Both	Compressor	See Page 16 for Compressor Part Numbers			
9	Both	Isolator Kit, Compressor	5710029P03	5710029P03	5710029P03	5710029P03
10	Both	Valve, Relief	022-08863	022-08863	022-08863	022-08863

^s Recommended Spare Part

COMPRESSOR

YCAL0117, YCAL0133, YCAL0147
YCAL0157 & YCAL0173

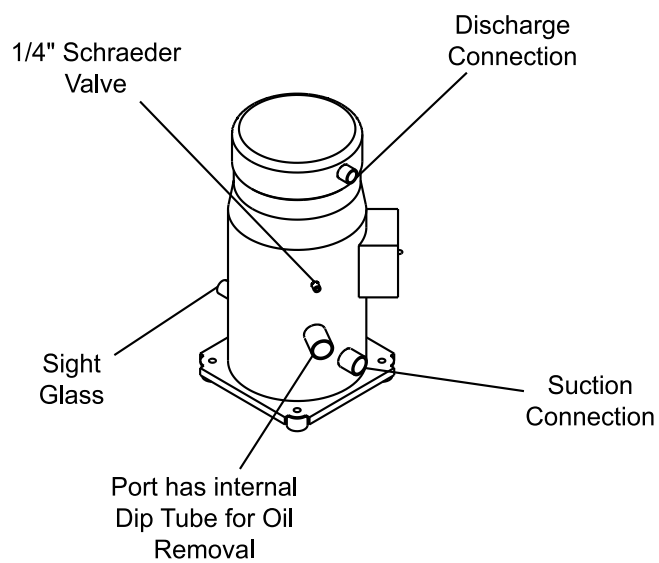
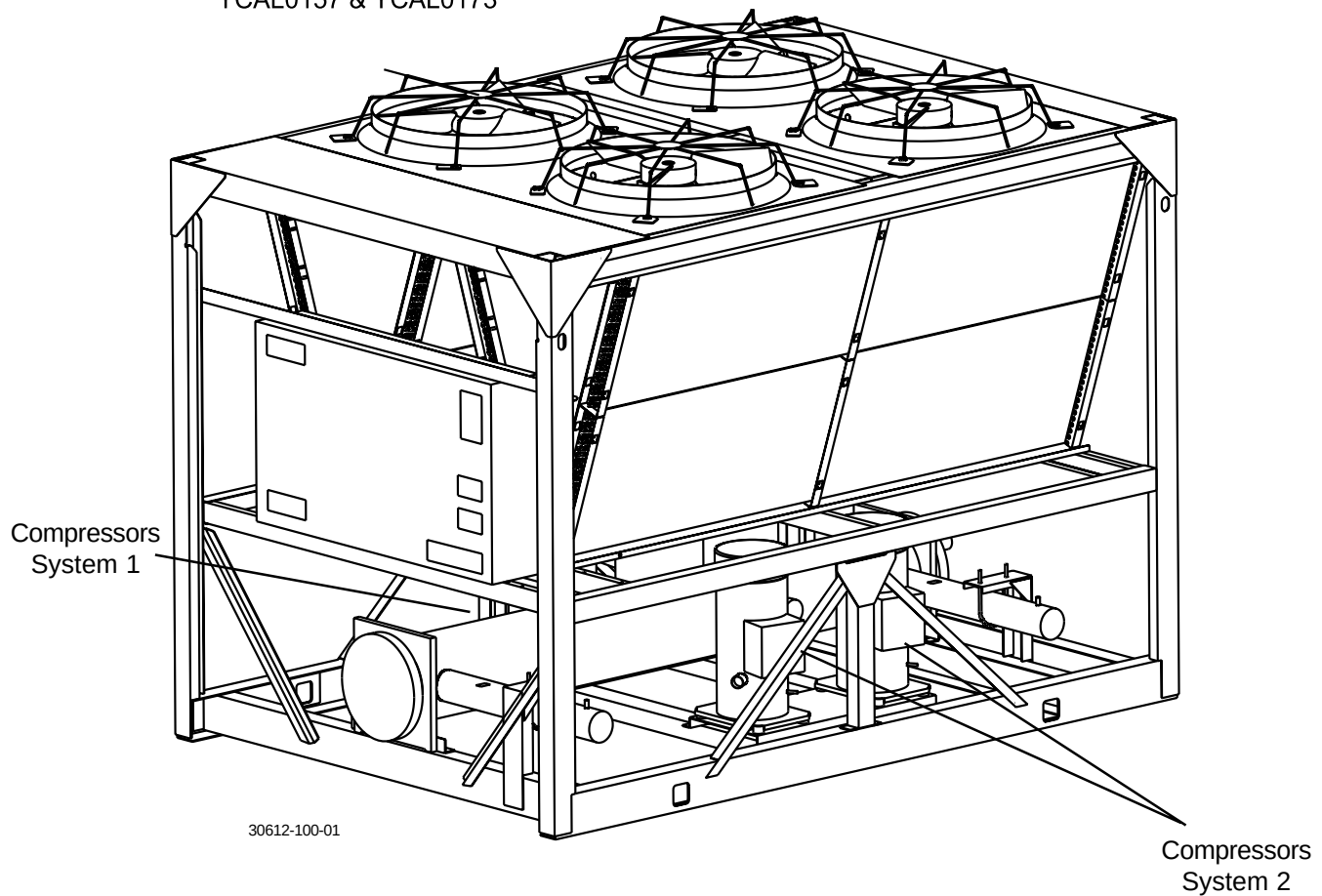


FIG. 6 – COMPRESSOR - YCAL0117 THROUGH YCAL0173 (REF. TABLE 5, PAGE 16)

COMPRESSOR (CONT'D)

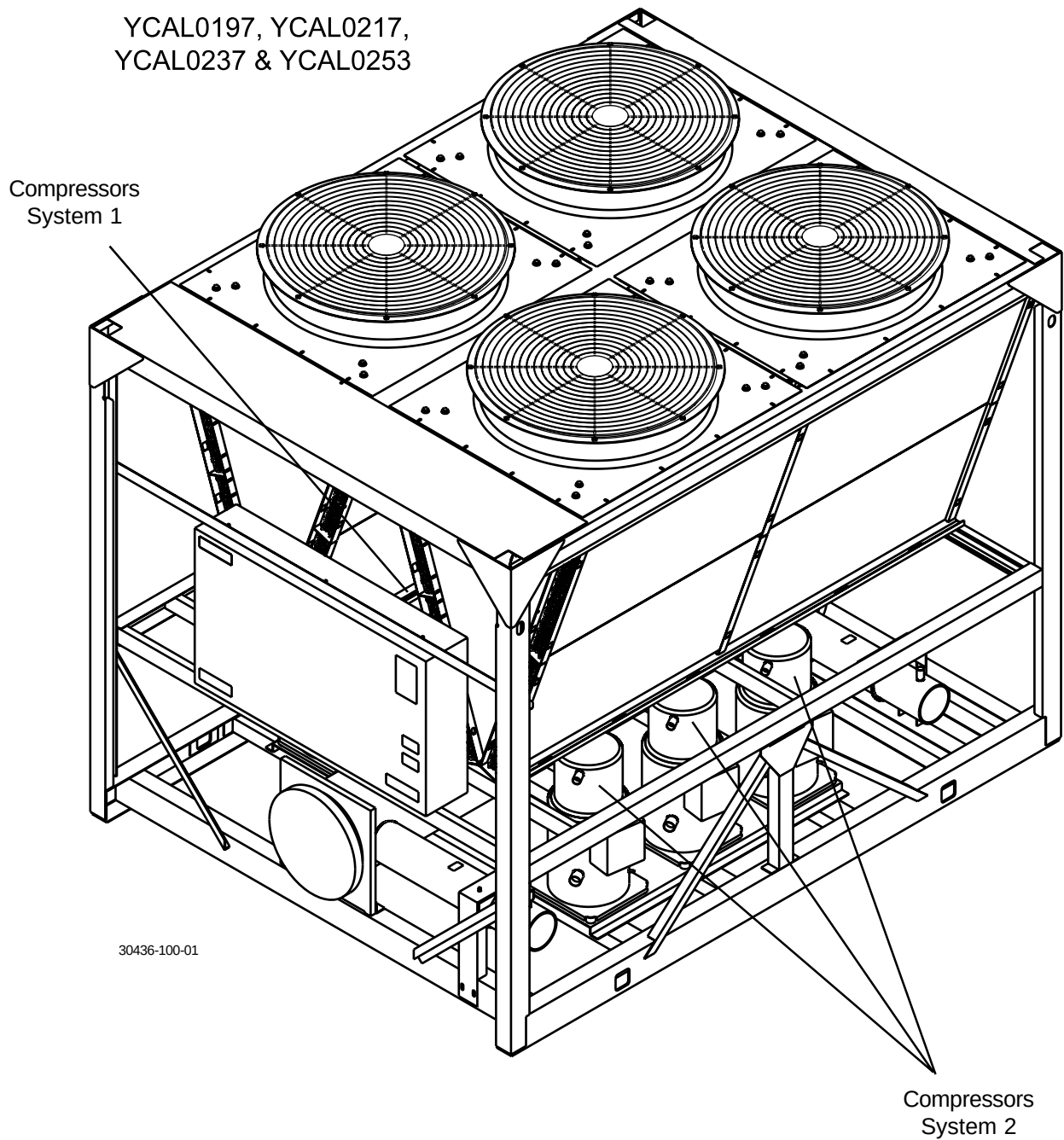


FIG. 7 – COMPRESSOR - YCAL0197 THROUGH YCAL0253 (REF. TABLE 5, PAGE 16)

COMPRESSOR (CONT'D)

TABLE 5 – COMPRESSOR PART NUMBERS (SEE FIGS. 6 AND 7, PAGES 14 AND 15)

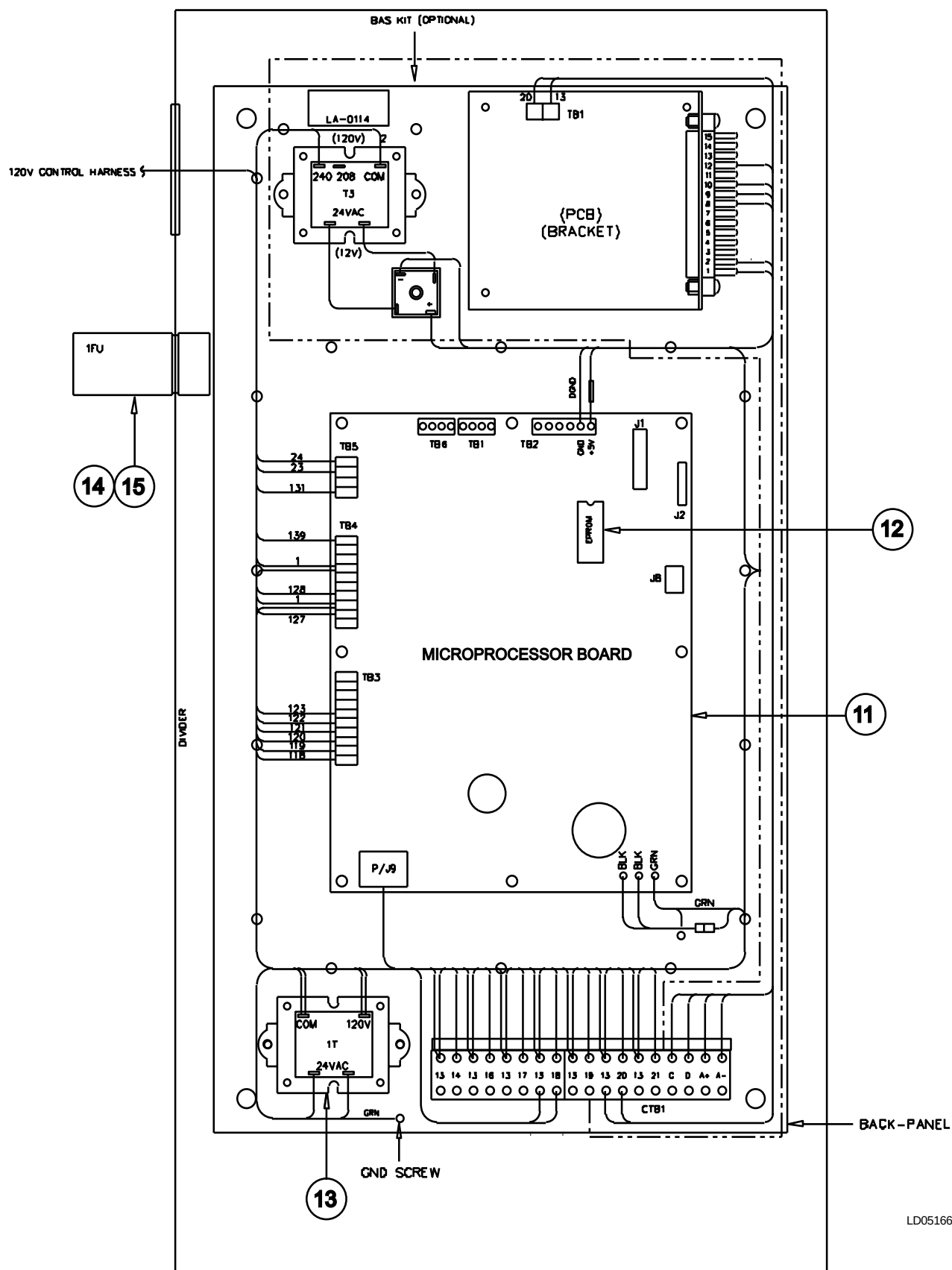
MODEL	VOLTAGE CODE	QTY		SYSTEM #1 COMPRESSOR		SYSTEM #2 COMPRESSOR	
		SYS 1	SYS 2	PART #	MODEL #	PART #	MODEL #
YCAL0043	-50	2	N/A	026-36517-004	SM090	N/A	N/A
YCAL0057	-50	2	N/A	026-36518-004	SM120	N/A	N/A
YCAL0073	-50	2	N/A	026-36500-002	SM160	N/A	N/A
YCAL0087	-50	2	N/A	026-36162-002	SM185	N/A	N/A
YCAL0107	-50	3	N/A	026-36500-002	SM160	N/A	N/A
YCAL0117	-50	2	2	026-36514-002	SM125	026-36514-002	SM125
YCAL0133	-50	2	2	026-36500-002	SM160	026-36514-002	SM125
YCAL0147	-50	2	2	026-36500-002	SM160	026-36500-002	SM160
YCAL0157	-50	2	2	026-36162-002	SM185	026-36500-002	SM160
YCAL0173	-50	2	2	026-36162-002	SM185	026-36162-002	SM185
YCAL0197	-50	3	3	026-36500-002	SM160	026-36514-002	SM125
YCAL0217	-50	3	3	026-36500-002	SM160	026-36500-002	SM160
YCAL0237	-50	3	3	026-36162-002	SM185	026-36500-002	SM160
YCAL0253	-50	3	3	026-36162-002	SM185	026-36162-002	SM185

ITEM	DESCRIPTION	MODEL YCAL0043 - YCAL0253
OIL ^s	OIL, TYPE 'F'	011-00434-000

^s Recommended Spare Part

This page intentionally left blank

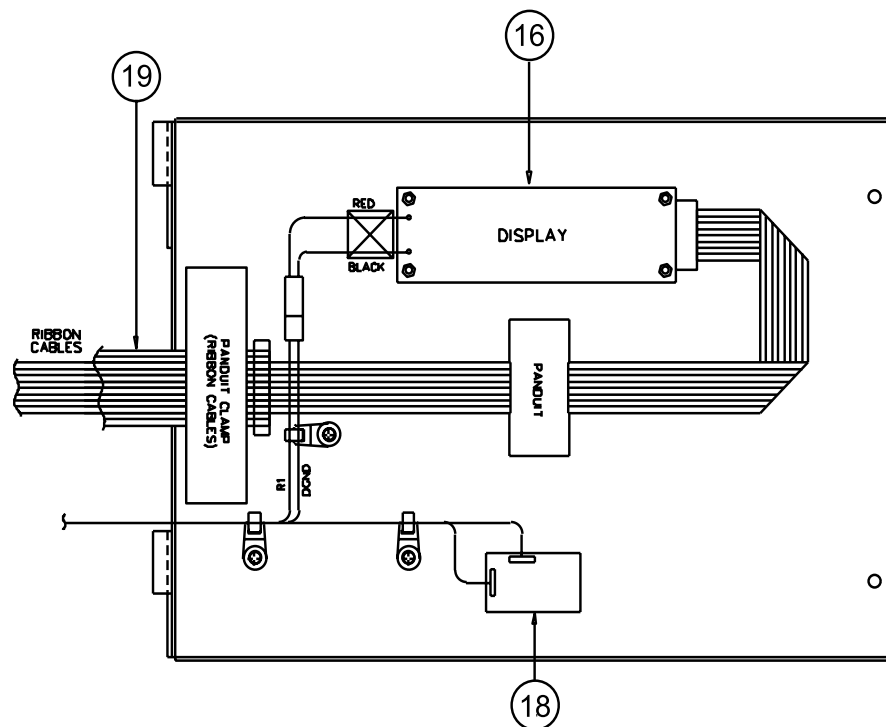
CONTROL PANEL AND POWER PANEL



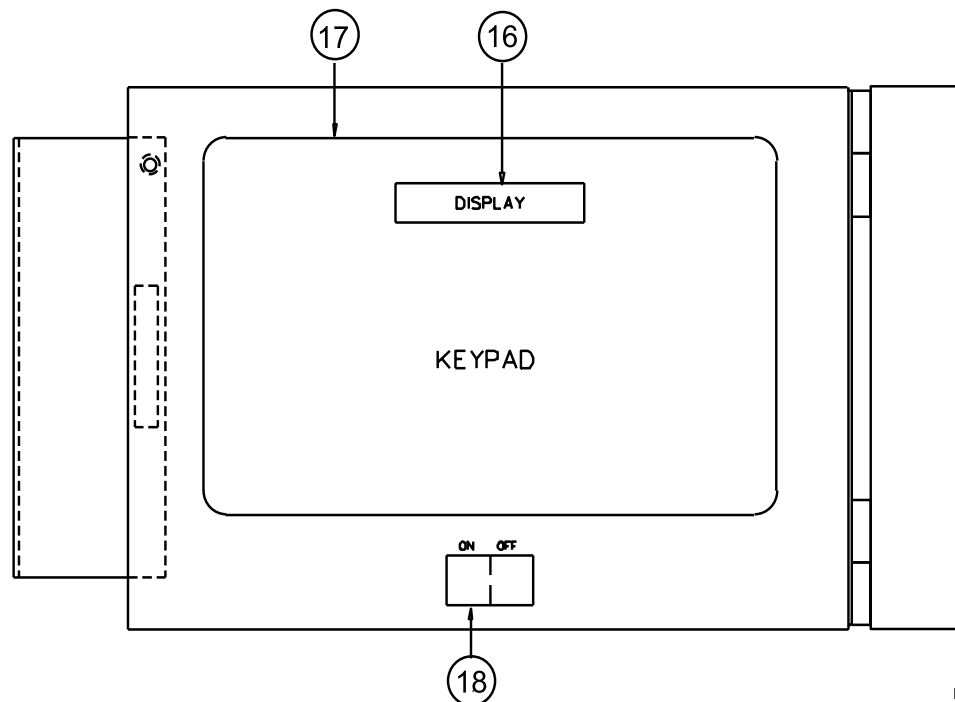
LD05166

FIG. 8 – CONTROL PANEL COMPONENTS (REF. TABLE 7, PAGES 24-29)

CONTROL PANEL AND POWER PANEL (CONT'D)



DISPLAY DOOR REAR VIEW

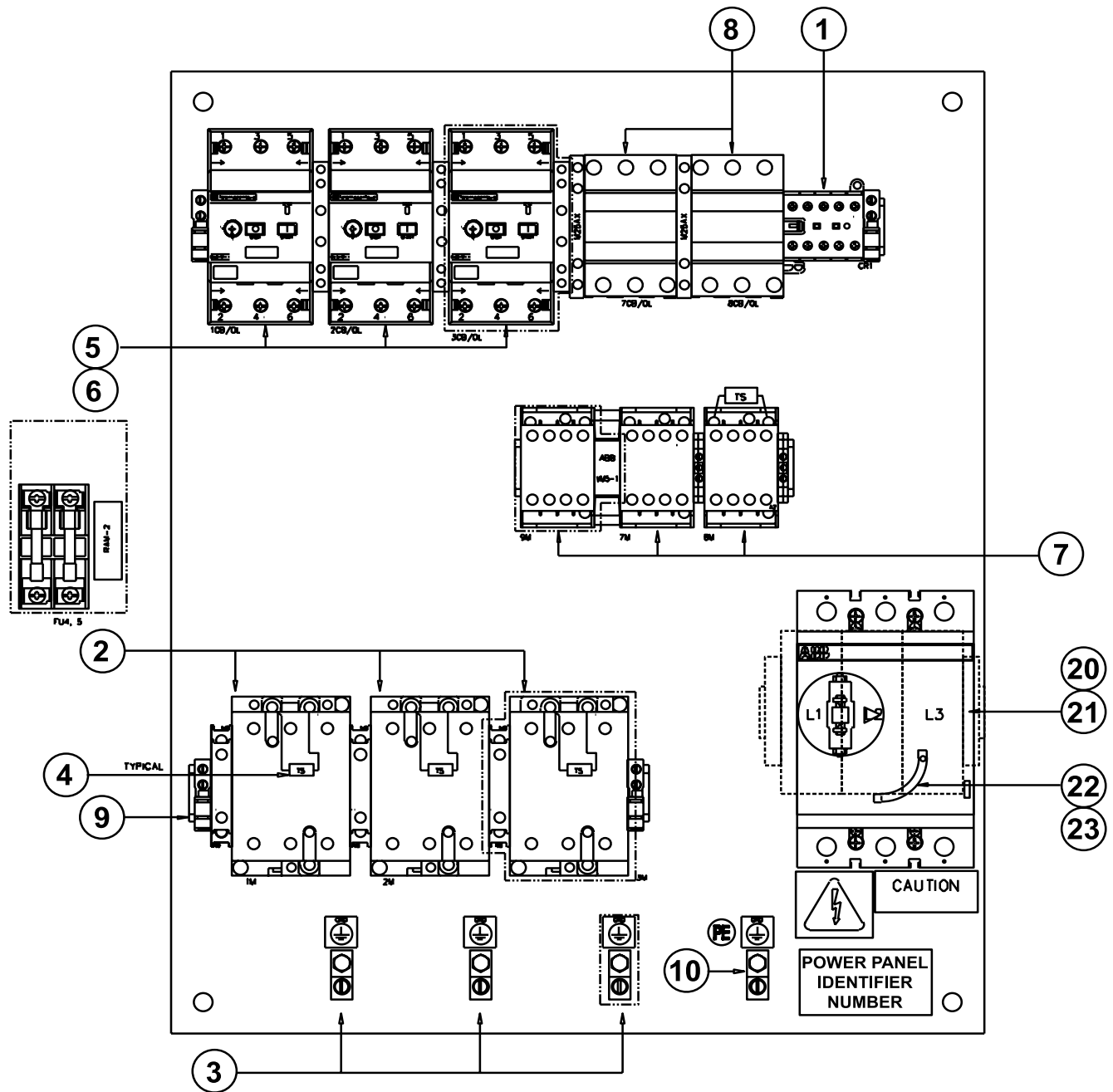


DISPLAY DOOR FRONT VIEW

LD05167

FIG. 9 – CONTROL PANEL COMPONENTS (REF. TABLE 7, PAGES 24-29)

CONTROL PANEL AND POWER PANEL (CONT'D)



LD05161

FIG. 10 – POWER PANEL COMPONENTS - YCAL0043-YCAL0107 (REF. TABLE 7, PAGES 24-29)

CONTROL PANEL AND POWER PANEL (CONT'D)

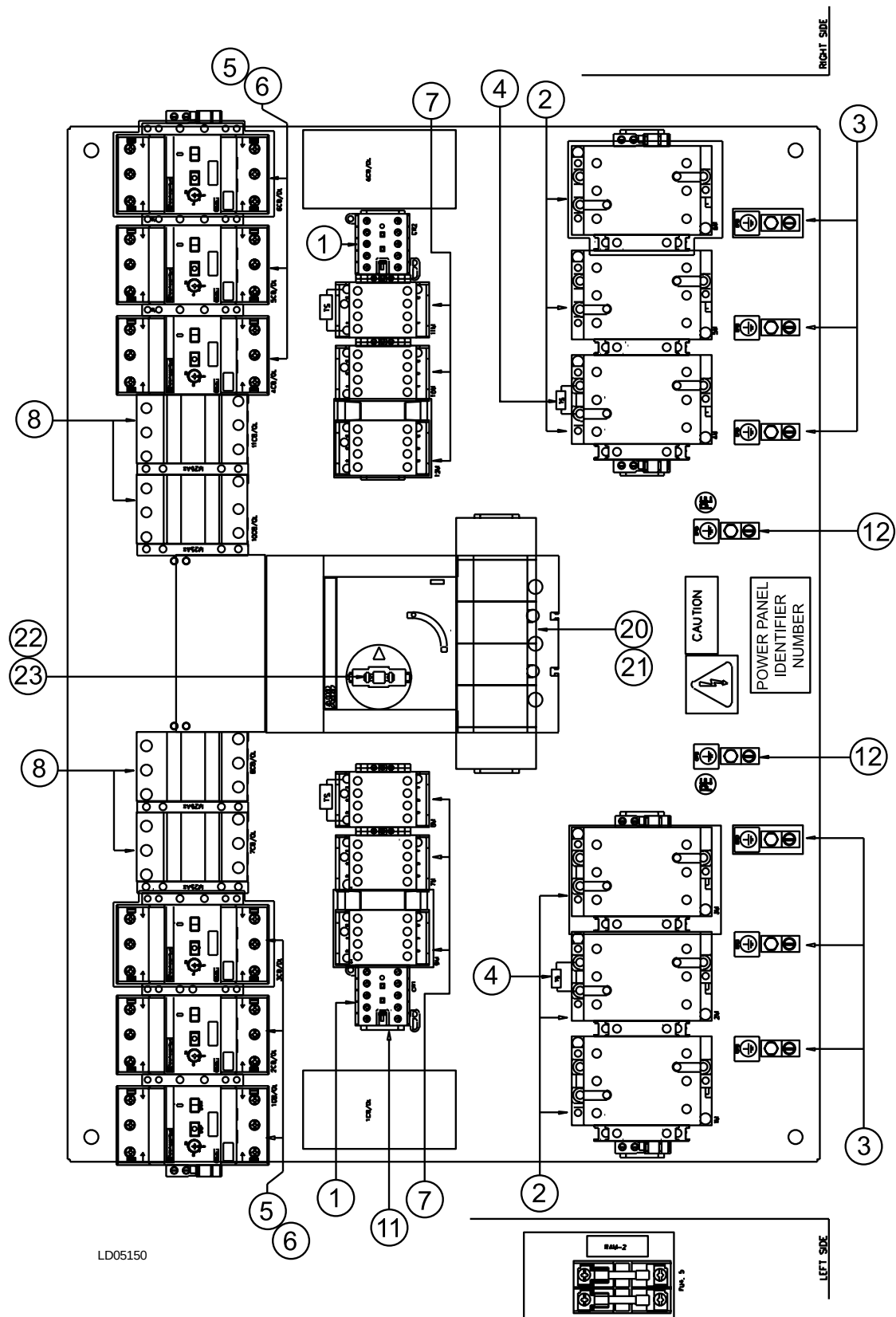


FIG. 11 – POWER PANEL COMPONENTS - YCAL0117-YCAL0173 (REF. TABLE 7, PAGES 24-29)

CONTROL PANEL AND POWER PANEL (CONT'D)

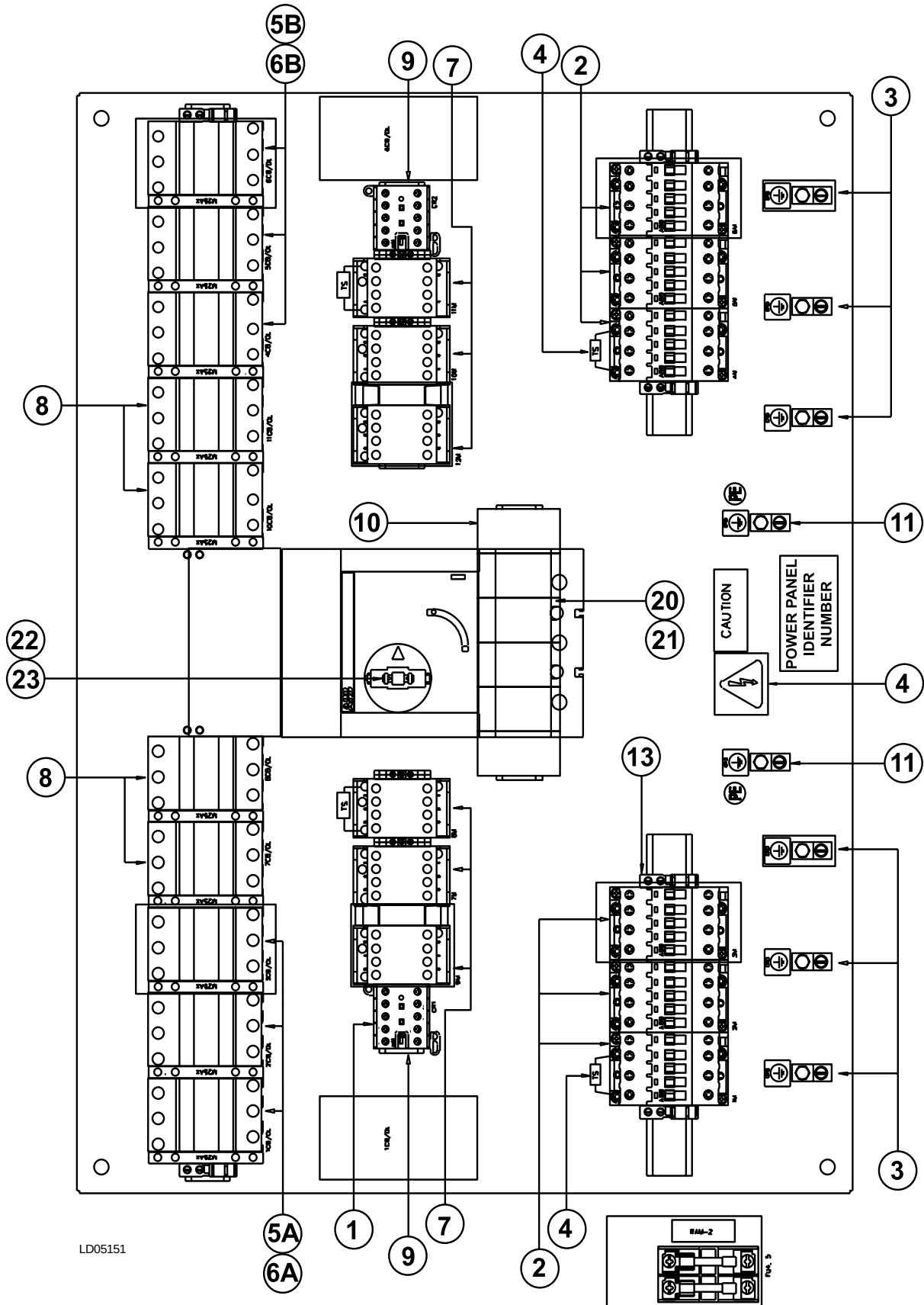


FIG. 12 – POWER PANEL COMPONENTS - YCAL0197-YCAL0253 (REF. TABLE 7, PAGES 24-29)

CONTROL PANEL AND POWER PANEL (CONT'D)

TABLE 6 – CONTROL AND POWER PANEL IDENTIFIERS (TO IDENTIFY REPLACEMENT PART NUMBERS, SELECT PANEL IDENTIFIER NUMBER BELOW, THEN REFER TO THE HIGHLIGHTED ROW ON THE 'CONTROL AND POWER PANEL COMPONENTS' TABLE 7, PAGES 24-29 AND SEE FIGS. 8-12, PAGES 18-22)

Model	Voltage Code	Power Panel with Terminal Block	Power Panel with Separate System Circuit Breakers	Power Panel with Separate System NF Disconnect Switches
		Panel Number	Panel Number	Panel Number
YCAL0043	-50	371-02753-104	371-02753-207	371-02753-307
YCAL0057	-50	-111	-214	-214
YCAL0073	-50	-118	-221	-321
YCAL0087	-50	-118	-228	-328
YCAL0107	-50	-132	-235	-235
YCAL0117	-50	371-02752-104	371-02752-207	371-02752-307
YCAL0133	-50	-129	-230	-330
YCAL0147	-50	-111	-214	-314
YCAL0157	-50	-118	-221	-321
YCAL0173	-50	-111	-228	-328
YCAL0197	-50	371-02751-104	371-02751-207	371-02751-307
YCAL0217	-50	-111	-214	-314
YCAL0237	-50	-103	-221	-321
YCAL0253	-50	-110	-228	-328

*** Note:** To find Control and Power Panel Identifier, See FIGURES 10-12 for Part Label locations.

TABLE 7 – CONTROL PANEL AND POWER PANEL COMPONENTS (SEE FIGS. 8-12, PAGES 18-22)

ITEM NO.	QTY	DESCRIPTION	371-02573 -104	371-02573 -111	371-02573 -118	371-02573 -132	371-02573 -207	371-02573 -214	371-02573 -221
1	1	Contactor 600V (CR 1 & 2)	024-31635-000	024-31635-000	024-31635-000	024-31635-000	024-31635-000	024-31635-000	024-31635-000
2	2	Compressor Contactor	024-31830-000	024-31817-000	024-31818-000	024-31818-000 (3)	024-31830-000	024-31817-000	024-31818-000
3	2	Ground Lug, Cu	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000
4	4	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000
5	2	Compressor Manual Starter	N/A	N/A	025-34489-000	025-34489-000	N/A	N/A	025-34489-000
6	2	Auxilliary Contactor	N/A	N/A	N/A	N/A	N/A	N/A	N/A
7	2	Fan Contactor	025-34448-000	025-34448-000	025-34448-000	025-34448-000	025-34448-000	025-34448-000	025-34448-000
8	2	Fan Manual Motor Starter	025-34449-000	025-34449-000	025-34449-000	025-34449-000	025-34449-000	025-34449-000	025-34449-000
9	2	Din Rail Slotted	025-29167-000	025-29167-000	025-29167-000	025-29167-000	025-29167-000	025-29167-000	025-29167-000
10	1	Ground Lug, Cu	025-34088-000	025-34088-000	025-34088-000	025-34088-000	025-34455-000	025-34455-000	025-34088-000
11	1	Circuit Board	031-02050-001	031-02050-001	031-02050-001	031-02050-001	031-02050-001	031-02050-001	031-02050-001
12	1	Firmware EPROM	031-02049-001	031-02049-001	031-02049-001	031-02049-001	031-02049-001	031-02049-001	031-02049-001
13	1	Control Transformer	025-30889-000	025-30889-000	025-30889-000	025-30889-000	025-30889-000	025-30889-000	025-30889-000
14	1	Fuse	025-34483-000	025-34483-000	025-34483-000	025-34483-000	025-34483-000	025-34483-000	025-34483-000
15	1	Buss	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000
16	1	Display	031-01110-000	031-01110-000	031-01110-000	031-01110-000	031-01110-000	031-01110-000	031-01110-000
17	1	Membrane, Keypad	024-27838-000	024-27838-000	024-27838-000	024-27838-000	024-27838-000	024-27838-000	024-27838-000
18	1	Switch, On/Off	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000
19	1	Assm Ribbon Cable	031-01109-211	031-01109-211	031-01109-211	031-01109-211	031-01109-211	031-01109-211	031-01109-211
20	2	Terminal Block, Fan	025-34447-000	025-34447-000	025-34447-000	025-34447-000	025-34447-000	025-34447-000	025-34447-000
21	3	Terminal Block	025-35644-000	025-35644-000	025-34485-000	025-34485-000	N/A	N/A	N/A
	1	Circuit Breaker	N/A	N/A	N/A	N/A	024-31837-000	024-31837-000	024-31837-000
	1	NF Disconnect Switch	N/A	N/A	N/A	N/A	N/A	N/A	N/A
22	1	Handle, CB or NF Disc. Sw.	N/A	N/A	N/A	N/A	024-31880-000	024-31880-000	024-31880-000
23	1	Shaft, CB or NF Disc. Sw.	N/A	N/A	N/A	N/A	024-31879-000	024-31879-000	024-31879-000

CONTROL PANEL AND POWER PANEL (CONT'D)

TABLE 7 (CONT'D) – CONTROL PANEL AND POWER PANEL COMPONENTS (SEE FIGS. 8-12, PAGES 18-22)

ITEM NO.	QTY	DESCRIPTION	371-02753 -228	371-02753 -235	371-02753 -307	371-02753 -321	371-02753 -328
1	1	Contactor 600V (CR 1 & 2)	024-31635-000	024-31635-000	024-31635-000	024-31635-000	024-31635-000
2	2	Compressor Contactor	024-31818-000	024-31818-000	024-31830-000	024-31818-000	024-31818-000
3	2	Ground Lug, Cu	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000
4	4	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000
5	2	Compressor Manual Starter	025-34489-000	025-34489-000	025-34489-000	025-34489-000	N/A
6	2	Auxilliary Contactor	N/A	N/A	N/A	N/A	N/A
7	2	Fan Contactor	025-34448-000	025-34448-000	025-34448-000	025-34448-000	025-34448-000
8	2	Fan Manual Motor Starter	025-34449-000	025-34449-000	025-34449-000	025-34449-000	025-34449-000
9	2	Din Rail Slotted	025-29167-000	025-29167-000	025-29167-000	025-29167-000	025-29167-000
10	1	Ground Lug, Cu	025-34088-000	025-34088-000	025-34455-000	025-34455-000	025-34088-000
11	1	Circuit Board	031-02050-001	031-02050-001	031-02050-001	031-02050-001	031-02050-001
12	1	Firmware EPROM	031-02049-001	031-02049-001	031-02049-001	031-02049-001	031-02049-001
13	1	Control Transformer	025-30889-000	025-30889-000	025-30889-000	025-30889-000	025-30889-000
14	1	Fuse	025-34483-000	025-34483-000	025-34483-000	025-34483-000	025-34483-000
15	1	Buss	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000
16	1	Display	031-01110-000	031-01110-000	031-01110-000	031-01110-000	031-01110-000
17	1	Membrane, Keypad	024-27838-000	024-27838-000	024-27838-000	024-27838-000	024-27838-000
18	1	Switch, On/Off	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000
19	1	Assm Ribbon Cable	031-01109-211	031-01109-211	031-01109-211	031-01109-211	031-01109-211
20	2	Terminal Block, Fan	025-34447-000	025-34447-000	025-34447-000	025-34447-000	025-34447-000
21	3	Terminal Block	N/A	N/A	N/A	N/A	N/A
	1	Circuit Breaker	024-31841-000	024-31843-000	024-31839-000	024-31839-000	024-31843-000
	1	NF Disconnect Switch	N/A	N/A	N/A	N/A	N/A
22	1	Handle, CB or NF Disc. Sw.	024-31880-000	024-31880-000	024-31880-000	024-31880-000	024-31880-000
23	1	Shaft, CB or NF Disc. Sw.	024-31879-000	024-31879-000	024-31879-000	024-31879-000	024-31879-000

CONTROL PANEL AND POWER PANEL (CONT'D)

TABLE 7 (CONT'D) – CONTROL PANEL AND POWER PANEL COMPONENTS (SEE FIGS. 8-12, PAGES 18-22)

ITEM NO.	QTY	DESCRIPTION	371-02572 -104	371-02572 -111	371-02572 -118	371-02572 -129	371-02572 -207	371-02572 -214	371-02572 -221
1	2	Contactor 600V (CR 1 & 2)	024-31635-000	024-31635-000	024-31635-000	024-31635-000	024-31635-000	024-31635-000	024-31635-000
2	2	Compressor Contactor	024-31817-000	024-31818-000	024-31818-000	024-31818-000	024-31817-000	024-31818-000	024-31818-000
	2		024-31817-000	024-31818-000	024-31813-000	024-31817-000	024-31817-000	024-31818-000	024-31813-000
3	4	Ground Lug, Cu	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000
4	8	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000
5	2	Compressor Manual Starter	025-34453-000	025-34489-000	025-34489-000	025-34489-000	025-34453-000	025-34489-000	025-34489-000
	2		025-34453-000	025-34489-000	024-31816-000	025-34453-000	025-34453-000	025-34489-000	025-31814-000
6	2	Auxilliary Contactor	N/A	N/A	024-31814-000	N/A	N/A	N/A	N/A
7	4	Fan Contactor	025-34448-000	025-34448-000	025-34448-000	025-34448-000	025-34448-000	025-34448-000	025-34448-000
8	4	Fan Manual Motor Starter	025-34449-000	025-34449-000	025-34449-000	025-34449-000	025-34449-000	025-34449-000	025-34449-000
9	2	Din Rail Slotted	025-29167-000	025-29167-000	025-29167-000	025-29167-000	025-29167-000	025-29167-000	025-29167-000
10	2	Ground Lug, Cu	025-34088-000	025-34088-000	025-34088-000	025-34088-000	025-34088-000	025-34088-000	025-34088-000
11	1	Circuit Board	031-02050-001	031-02050-001	031-02050-001	031-02050-001	031-02050-001	031-02050-001	031-02050-001
12	1	Firmware EPROM	031-02049-001	031-02049-001	031-02049-001	031-02049-001	031-02049-001	031-02049-001	031-02049-001
13	1	Control Transformer	025-30889-000	025-30889-000	025-30889-000	025-30889-000	025-30889-000	025-30889-000	025-30889-000
14	1	Fuse	025-34483-000	025-34483-000	025-34483-000	025-34483-000	025-34483-000	025-34483-000	025-34483-000
15	1	Buss	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000
16	1	Display	031-01110-000	031-01110-000	031-01110-000	031-01110-000	031-01110-000	031-01110-000	031-01110-000
17	1	Membrane, Keypad	024-27838-000	024-27838-000	024-27838-000	024-27838-000	024-27838-000	024-27838-000	024-27838-000
18	1	Switch, On/Off	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000
19	1	Assm Ribbon Cable	031-01109-211	031-01109-211	031-01109-211	031-01109-211	031-01109-211	031-01109-211	031-01109-211
20	4	Terminal Block	025-34447-000	025-34447-000	025-34447-000	025-34447-000	025-34447-000	025-34447-000	025-34447-000
21	3	Terminal Block	025-35644-000	025-34485-000	025-34485-000	025-34485-000	N/A	N/A	N/A
	3		025-35644-000	025-34485-000	025-34485-000	025-35644-000	N/A	N/A	N/A
	1	Circuit Breaker	N/A	N/A	N/A	N/A	024-31842-000	324-31844-000	024-31844-000
	1	NF Disconnect Switch	N/A	N/A	N/A	N/A	N/A	N/A	N/A
22	1	Handle, CB or NF Disc. Sw.	N/A	N/A	N/A	N/A	024-31880-000	024-31880-000	024-31880-000
23	1	Shaft, CB or NF Disc. Sw.	N/A	N/A	N/A	N/A	024-31879-000	024-31879-000	024-31879-000

CONTROL PANEL AND POWER PANEL (CONT'D)

TABLE 7 (CONT'D) – CONTROL PANEL AND POWER PANEL COMPONENTS (SEE FIGS. 8-12, PAGES 18-22)

ITEM NO.	QTY	DESCRIPTION	371-02572 -228	371-02572 -230	371-02572 -307	371-02572 -314	371-02572 -321	371-02572 -328	371-02572 -330
1	2	Contactor 600V (CR 1 & 2)	024-31635-000	024-31635-000	024-31635-000	024-31635-000	024-31635-000	024-31635-000	024-31635-000
2	2	Compressor Contactor	024-31813-000	024-31817-000	024-31817-000	024-31818-000	024-31813-000	024-31813-000	024-31817-000
	2		024-31813-000	024-31818-000	024-31817-000	024-31818-000	024-31818-000	024-31813-000	024-31818-000
3	4	Ground Lug, Cu	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000
4	8	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000
5	2	Compressor Manual Starter	025-31816-000	025-34453-000	025-34453-000	025-34489-000	025-34489-000	025-31816-000	025-34453-000
	2		025-31816-000	025-34489-000	024-34453-000	025-34489-000	025-31816-000	025-31816-000	025-34489-000
6	2	Auxilliary Contactor	024-31814-000	N/A	024-31814-000	N/A	024-31814-000	N/A	N/A
7	4	Fan Contactor	025-34448-000	025-34448-000	025-34448-000	025-34448-000	025-34448-000	025-34448-000	025-34448-000
8	4	Fan Manual Motor Starter	025-34449-000	025-34449-000	025-34449-000	025-34449-000	025-34449-000	025-34449-000	025-34449-000
9	2	Din Rail Slotted	025-29167-000	025-29167-000	025-29167-000	025-29167-000	025-29167-000	025-29167-000	025-29167-000
10	2	Ground Lug, Cu	025-34089-000	025-34088-000	025-34088-000	025-34089-000	025-34089-000	025-34089-000	025-34088-000
11	1	Circuit Board	031-02050-001	031-02050-001	031-02050-001	031-02050-001	031-02050-001	031-02050-001	031-02050-001
12	1	Firmware EPROM	031-02049-001	031-02049-001	031-02049-001	031-02049-001	031-02049-001	031-02049-001	031-02049-001
13	1	Control Transformer	025-30889-000	025-30889-000	025-30889-000	025-30889-000	025-30889-000	025-30889-000	025-30889-000
14	1	Fuse	025-34483-000	025-34483-000	025-34483-000	025-34483-000	025-34483-000	025-34483-000	025-34483-000
15	1	Buss	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000
16	1	Display	031-01110-000	031-01110-000	031-01110-000	031-01110-000	031-01110-000	031-01110-000	031-01110-000
17	1	Membrane, Keypad	024-27838-000	024-27838-000	024-27838-000	024-27838-000	024-27838-000	024-27838-000	024-27838-000
18	1	Switch, On/Off	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000
19	1	Assm Ribbon Cable	031-01109-211	031-01109-211	031-01109-211	031-01109-211	031-01109-211	031-01109-211	031-01109-211
20	4	Terminal Block	025-34447-000	025-34447-000	025-34447-000	025-34447-000	025-34447-000	025-34447-000	025-34447-000
21	3	Terminal Block	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3		N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1	Circuit Breaker	024-31649-000	024-31843-000	024-31843-000	N/A	N/A	N/A	N/A
	1	NF Disconnect Switch	N/A	N/A	N/A	024-31888-000	024-31888-000	024-31888-000	024-31888-000
22	1	Handle, CB or NF Disc. Sw.	024-31880-000	024-31880-000	024-31880-000	024-31880-000	024-31880-000	024-31880-000	024-31880-000
23	1	Shaft, CB or NF Disc. Sw.	024-31879-000	024-31879-000	024-31879-000	024-31879-000	024-31879-000	024-31879-000	024-31879-000

CONTROL PANEL AND POWER PANEL (CONT'D)

TABLE 7 (CONT'D) – CONTROL PANEL AND POWER PANEL COMPONENTS (SEE FIGS. 8-12, PAGES 18-22)

ITEM NO.	QTY	DESCRIPTION	371-02571 -103	371-02571 -104	371-02571 -110	371-02571 -111	371-02571 -207	371-02571 -214	371-02571 -221
1	2	Contactor 600V (CR 1 & 2)	024-31635-000	024-31635-000	024-31635-000	024-31635-000	024-31635-000	024-31635-000	024-31635-000
2	3	Compressor Contactor	024-31818-000	024-31817-000	024-31813-000	024-31818-000	024-31817-000	024-31818-000	024-31818-000
	3		024-31813-000	024-31818-000	024-31813-000	024-31818-000	024-31818-000	024-31818-000	024-31813-000
3	6	Ground Lug, Cu	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000
4	10	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000
5	3	Compressor Manual Starter	025-34489-000	025-34489-000	025-31816-000	025-34489-000	025-34453-000	025-34489-000	025-34489-000
	3		024-31816-000	025-34453-000	024-31816-000	025-34489-000	025-34489-000	025-34489-000	024-31816-000
6	6	Auxilliary Contactor	024-31814-000	N/A	024-31814-000	N/A	N/A	N/A	024-31814-000
7	4	Fan Contactor	025-34448-000	025-34448-000	025-34448-000	025-34448-000	025-34448-000	025-34448-000	025-34448-000
8	4	Fan Manual Motor Starter	025-34449-000	025-34449-000	025-34449-000	025-34449-000	025-34449-000	025-34449-000	025-34449-000
9	4	Din Rail Slotted	025-29167-000	025-29167-000	025-29167-000	025-29167-000	025-29167-000	025-29167-000	025-29167-000
10	2	Ground Lug, Cu	025-34088-000	025-34088-000	025-34088-000	025-34089-000	025-34089-000	025-34089-000	025-34089-000
11	1	Circuit Board	031-02050-001	031-02050-001	031-02050-001	031-02050-001	031-02050-001	031-02050-001	031-02050-001
12	1	Firmware EPROM	031-02049-001	031-02049-001	031-02049-001	031-02049-001	031-02049-001	031-02049-001	031-02049-001
13	1	Control Transformer	025-30889-000	025-30889-000	025-30889-000	025-30889-000	025-30889-000	025-30889-000	025-30889-000
14	1	Fuse	025-34483-000	025-34483-000	025-34483-000	025-34483-000	025-34483-000	025-34483-000	025-34483-000
15	1	Buss	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000
16	1	Display	031-01110-000	031-01110-000	031-01110-000	031-01110-000	031-01110-000	031-01110-000	031-01110-000
17	1	Membrane, Keypad	024-27838-000	024-27838-000	024-27838-000	024-27838-000	024-27838-000	024-27838-000	024-27838-000
18	1	Switch, On/Off	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000
19	1	Assm Ribbon Cable	031-01109-211	031-01109-211	031-01109-211	031-01109-211	031-01109-211	031-01109-211	031-01109-211
20	4	Terminal Block	025-34447-000	025-34447-000	025-34447-000	025-34447-000	025-34447-000	025-34447-000	025-34447-000
21	3	Terminal Block	025-34485-000	025-34485-000	025-34482-000	025-34485-000	N/A	N/A	N/A
	3		025-34482-000	025-34485-000	025-34482-000	025-34485-000	N/A	N/A	N/A
	1	Circuit Breaker	N/A	N/A	N/A	N/A	024-31649-000	024-31820-000	024-31820-000
	1	NF Disconnect Switch	N/A	N/A	N/A	N/A	N/A	N/A	N/A
22	1	Handle, CB or NF Disc. Sw.	N/A	N/A	N/A	N/A	024-31880-000	024-31880-000	024-31880-000
23	1	Shaft, CB or NF Disc. Sw.	N/A	N/A	N/A	N/A	024-31879-000	024-31879-000	024-31879-000

CONTROL PANEL AND POWER PANEL (CONT'D)

TABLE 7 (CONT'D) – CONTROL PANEL AND POWER PANEL COMPONENTS (SEE FIGS. 8-12, PAGES 18-22)

ITEM NO.	QTY	DESCRIPTION	371-02571 -228	371-02571 -307	371-02571 -314	371-02571 -321	371-02571 -328
1	2	Contactor 600V (CR 1 & 2)	024-31635-000	024-31635-000	024-31635-000	024-31635-000	024-31635-000
2	3	Compressor Contactor	024-31813-000	024-31817-000	024-31818-000	024-31813-000	024-31813-000
	3		024-31813-000	024-31818-000	024-31818-000	024-31818-000	024-31813-000
3	6	Ground Lug, Cu	025-34455-000	025-34455-000	025-34455-000	025-34455-000	025-34455-000
4	10	Surge Suppressor	031-00808-000	031-00808-000	031-00808-000	031-00808-000	031-00808-000
5	3	Compressor Manual Starter	025-31816-000	025-34489-000	025-34489-000	025-31816-000	025-31816-000
	3		024-31816-000	025-34453-000	024-34489-000	025-34489-000	025-31816-000
6	6	Auxilliary Contactor	024-31814-000	N/A	N/A	024-31814-000	024-31814-000
7	4	Fan Contactor	025-34448-000	025-34448-000	025-34448-000	025-34448-000	025-34448-000
8	4	Fan Manual Motor Starter	025-34449-000	025-34449-000	025-34449-000	025-34449-000	025-34449-000
9	4	Din Rail Slotted	025-29167-000	025-29167-000	025-29167-000	025-29167-000	025-29167-000
10	2	Ground Lug, Cu	025-34085-000	025-34088-000	025-34085-000	025-34085-000	025-34085-000
11	1	Circuit Board	031-02050-001	031-02050-001	031-02050-001	031-02050-001	031-02050-001
12	1	Firmware EPROM	031-02049-001	031-02049-001	031-02049-001	031-02049-001	031-02049-001
13	1	Control Transformer	025-30889-000	025-30889-000	025-30889-000	025-30889-000	025-30889-000
14	1	Fuse	025-34483-000	025-34483-000	025-34483-000	025-34483-000	025-34483-000
15	1	Buss	025-34484-000	025-34484-000	025-34484-000	025-34484-000	025-34484-000
16	1	Display	031-01110-000	031-01110-000	031-01110-000	031-01110-000	031-01110-000
17	1	Membrane, Keypad	024-27838-000	024-27838-000	024-27838-000	024-27838-000	024-27838-000
18	1	Switch, On/Off	024-25517-000	024-25517-000	024-25517-000	024-25517-000	024-25517-000
19	1	Assm Ribbon Cable	031-01109-211	031-01109-211	031-01109-211	031-01109-211	031-01109-211
20	4	Terminal Block	025-34447-000	025-34447-000	025-34447-000	025-34447-000	025-34447-000
21	3	Terminal Block	N/A	N/A	025-34482-000	025-34485-000	N/A
	3		N/A	N/A	025-34482-000	025-34485-000	N/A
	1	Circuit Breaker	024-31819-000	N/A	N/A	N/A	024-31649-000
	1	NF Disconnect Switch	N/A	024-31888-000	024-31870-000	024-31870-000	024-31870-000
22	1	Handle, CB or NF Disc. Sw.	024-31880-000	024-31880-000	024-31880-000	024-31880-000	024-31880-000
23	1	Shaft, CB or NF Disc. Sw.	024-31879-000	024-31879-000	024-31879-000	024-31879-000	024-31879-000

CONTROL PANEL AND POWER PANEL (CONT'D)

TRANSDUCERS, PRESSURE CUTOUTS AND TEMP SENSORS

TABLE 8 – TRANSDUCERS, PRESSURE CUTOUTS AND TEMP SENSORS (SEE FIG. 13)

ITEM NUMBER	QUANTITY	SYSTEM	DESCRIPTION	VOLTAGE CODE	PART NUMBER
1 ^s	1	Unit	Sensor, Outside Air Temp.	-50	025-28663-001
2 ^s	1	1 ea.	Sensor, Water Temp. (EWT, LWT)	-50	025-29964-000
3 ^s	1 per system	1 and 2	Switch, High Pressure Cutout	-50	025-28985-002
4 ^s	1 per system	1 and 2	Switch, Low Pressure Cutout	-50	025-33707-000
5	1	Unit	Compound, Heat Conductive	-50	013-00898-000
6	1 per system	Unit	Transducer, Suct. Press. (0-200psi)	-50	025-29583-000
7	1 per system	Unit	Transducer, Disch. Press. (0-400psi)	-50	025-29139-001

^s Recommended Spare Part

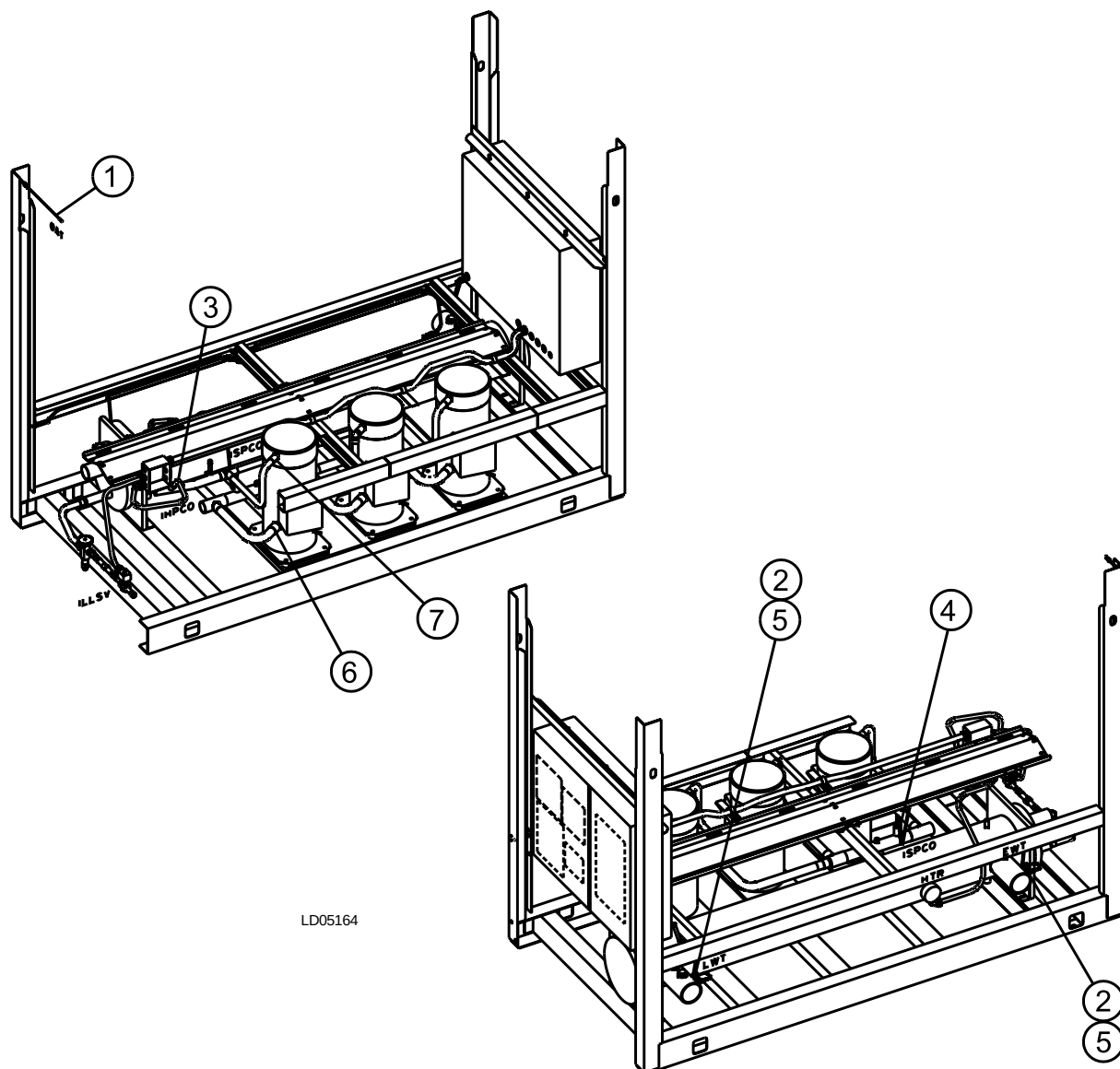


FIG. 13 – TRANSDUCERS, PRESSURE CUTOUTS AND TEMP SENSORS (REF. TABLE 8)

TRANSDUCER AND THERMISTOR WIRE HARNESS CONNECTORS - FIELD REPLACEMENT PART NUMBERS

TABLE 9 – 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	Thermistor	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

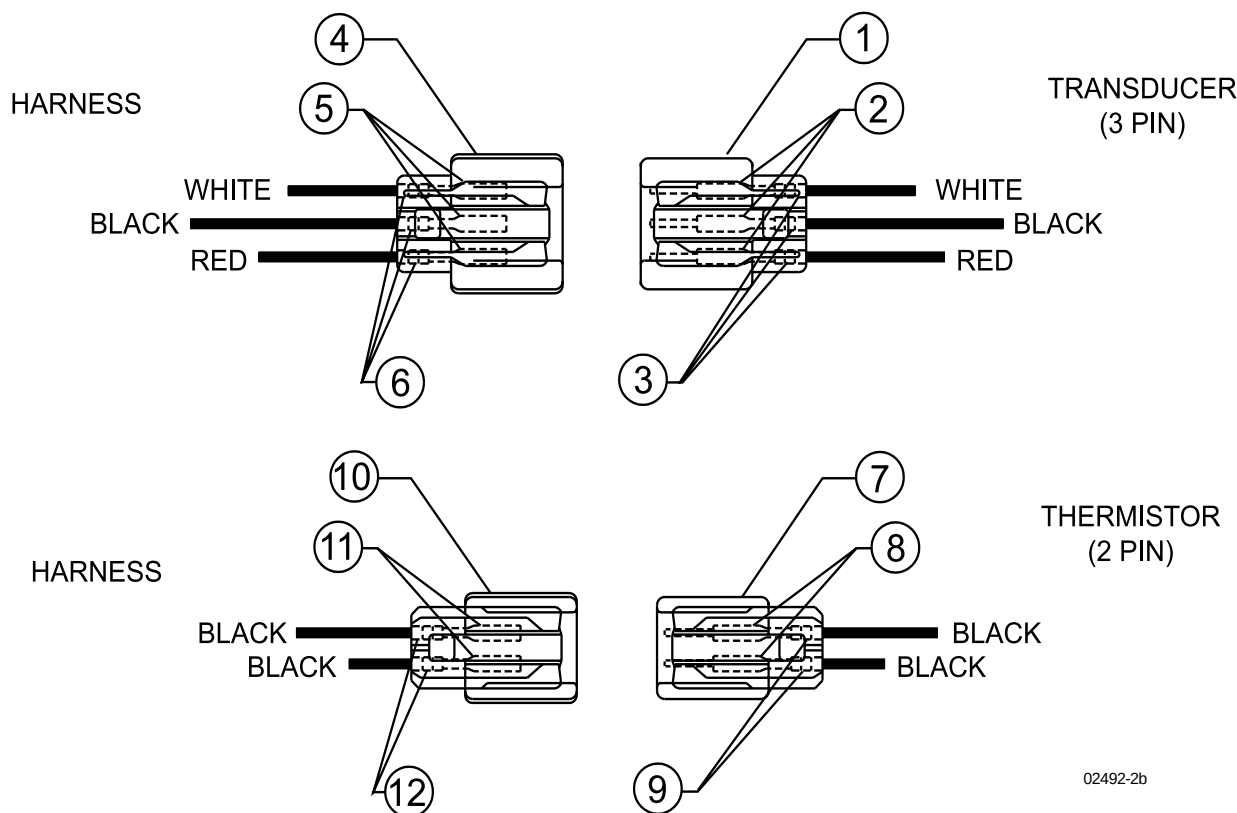


FIG. 14 – TRANSDUCER AND THERMISTOR WIRE HARNESS CONNECTORS - FIELD
REPLACEMENT PART NUMBERS (REF. TABLE 9)

TABLE 10 – FIELD INSTALLABLE OPTIONS TABLE

MODEL NUMBER YCAL	VIBRATION ISOLATORS SPRING 1" DEFLEC ALUMINUM* & BLK FIN	VIBRATION ISOLATORS SPRING 2" (SEISMIC) ALUMINUM* & BLK 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	HOT GAS BY-PASS SOLENOID VALVE W/ HARNESS**	BAS/EMS TEMPERATURE RESET / OFFSET	REMOTE CONTROL PANEL 50Hz	DISCHARGE PRESSURE TRANSDUCER KIT***	SUCTION PRESSURE TRANSDUCER KIT****
MODEL #	029-22779	029-222779	029-22780	029-22779	029-22779	029-22780	375-31851	375-30909	375-30914	371-02485	371-02458
0043	-001	-007	-001	-001	-007	-001	-109	-105	-000	-107	-001-001
0057	-001	-007	-001	-001	-007	-001	-101	-105	-000	-107	-001-001
0073	-001	-007	-001	-001	-007	-001	-102	-105	-000	-107	-001-001
0087	-001	-008	-001	-002	-017	-002	-102	-105	-000	-107	-001-001
0107	-014	-017	-002	-014	-017	-002	-103	-105	-000	-107	-001-001
0117	-004	-010	-003	-004	-011	-003	-104	-105	-000	-107	-002-002
0133	-004	-010	-003	-004	-011	-004	-106	-105	-000	-107	-002-002
0147	-004	-010	-003	-004	-011	-004	-106	-105	-000	-107	-002-002
0157	-004	-011	-003	-004	-011	-004	-106	-105	-000	-107	-002-002
0173	-004	-011	-004	-005	-013	-004	-106	-105	-000	-107	-002-002
0197	-005	-012	-004	-006	-019	-004	-107	-107	-000	-107	-002N/A
0217	-005	-012	-004	-006	-019	-005	-107	-107	-000	-107	-002N/A
0237	-006	-013	-004	-016	-020	-005	-108	-107	-000	-107	-002N/A
0253	-006	-013	-005	-016	-020	-005	-108	-107	-000	-107	-002N/A

* Note: Condenser Coil Fin Material.

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

*** Note: Discharge Pressure Transducer Only: 025-29139-001

**** Note: Suction Pressure Transducer Only: 025-29583-000

YCAL CHILLER OPTIONS – KITS

TABLE 10 (CONT'D) – FIELD INSTALLABLE OPTIONS TABLE

MODEL NUMBER YCAL	RFRGRNT R-22 (50 Hz)	MOTOR CURRENT MODULE KIT	OVERLOAD KIT (OPTIONAL)	HIGH AMBIENT KIT	LOW AMBIENT KIT	WELD FLANGE KIT	VICTAULIC FLANGE KIT	CHICAGO RELIEF VALVE	REMOTE CONTROL PANEL 50Hz	SEQUENCE CONTROL / AUTOMATIC LEAD TRANSFER	FLOW SWITCH	DFFRNTL PRESSURE SWITCH	CONTROL X-FORMER KIT
MODEL #	375-40114	371-02764	075-33482	375-30910	375-		023-	022-	371-02485	371-02558	024-26116	025-30919	375-30909
0043	-001 (32 lb.)	-000	-004	-102*	28556*	375-30969	19047-000	08863-000	-107	-000	-000	-000	-105
0057	-002 (38 lb.)	-000	-008	-102*	28556*	375-30969	19047-000	08863-000	-107	-000	-000	-000	-105
0073	-003 (58 lb.)	-000	N/A	-102*	28553*	375-30969	19047-000	08863-000	-107	-000	-000	-000	-105
0087	-004 (65 lb.)	-000	N/A	-102*	28553*	375-30969	19047-000	08863-000	-107	-000	-000	-000	-105
0107	-005 (69 lb.)	-000	N/A	-102*	28553*	366-93920	19048-000	08863-000	-107	-000	-000	-000	-105
0117	-006 (90 lb.)	-001	N/A	-104**	31802**	366-93920	19048-000	08863-000	-107	-000	-000	-000	-105
0133	-007 (108 lb.)	-001	N/A	-104**	31802**	366-93920	19048-000	08863-000	-107	-000	-000	-000	-105
0147	-007 (108 lb.)	-001	N/A	-104**	31802**	366-93920	19048-000	08863-000	-107	-000	-000	-000	-105
0157	-008 (114 lb.)	-001	N/A	-104**	31802**	366-93920	19048-000	08863-000	-107	-000	-000	-000	-105
0173	-009 (144 lb.)	-001	N/A	-104**	31802**	366-93920	19048-000	08863-000	-107	-000	-000	-000	-105
0197	-010 (137 lb.)	-001	N/A	-104**	31802**	366-93921	19049-000	10071-000	-107	-000	-000	-000	-107
0217	-011 (150 lb.)	-001	N/A	-104**	31802**	366-93921	19049-000	10071-000	-107	-000	-000	-000	-107
0237	-012 (175 lb.)	-001	N/A	-104**	31802**	366-93921	19049-000	10071-000	-107	-000	-000	-000	-107
0253	-013 (200 lb.)	-001	N/A	-104**	31802**	366-93921	19049-000	10071-000	-107	-000	-000	-000	-107

* Note: Discharge Pressure Transducer & Readout Kit 371-02458-001 is required to complete both High and Low Ambient Kits.

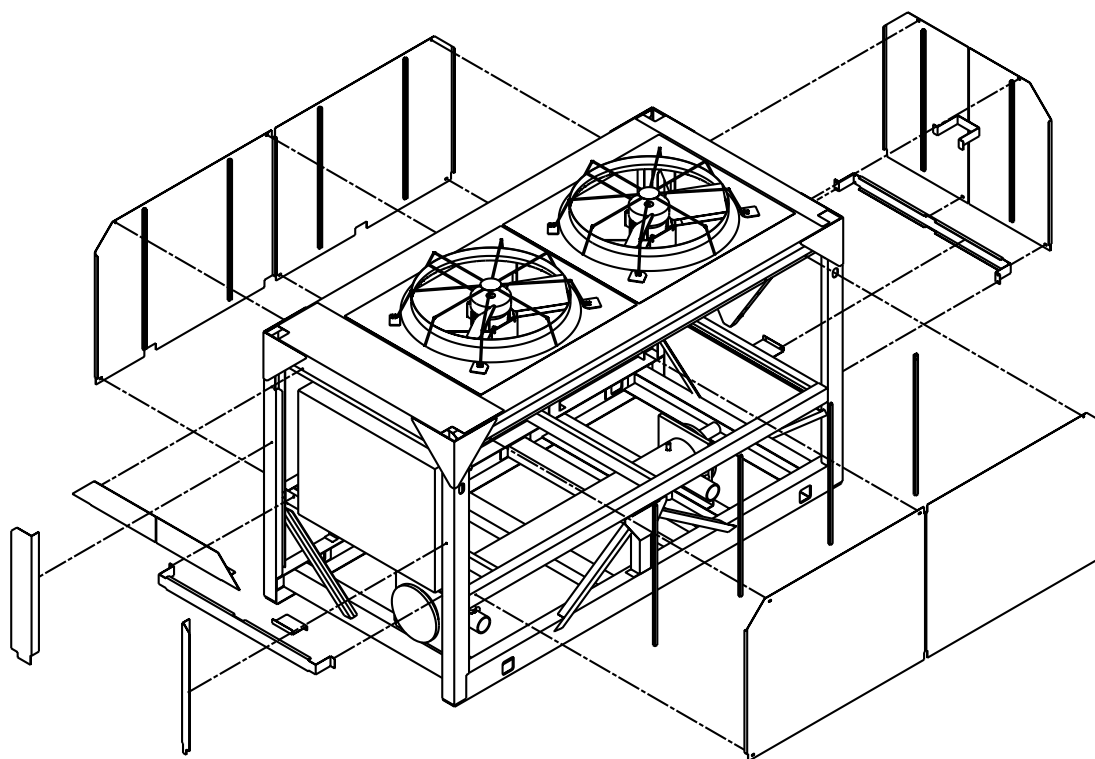
** Note: Discharge Pressure Transducer & Readout Kit 371-02458-002 is required to complete both High and Low Ambient Kits.

ENCLOSURE KIT OPTIONS

TABLE 11 – ENCLOSURE KIT OPTIONS (Top and Bottom Sections)

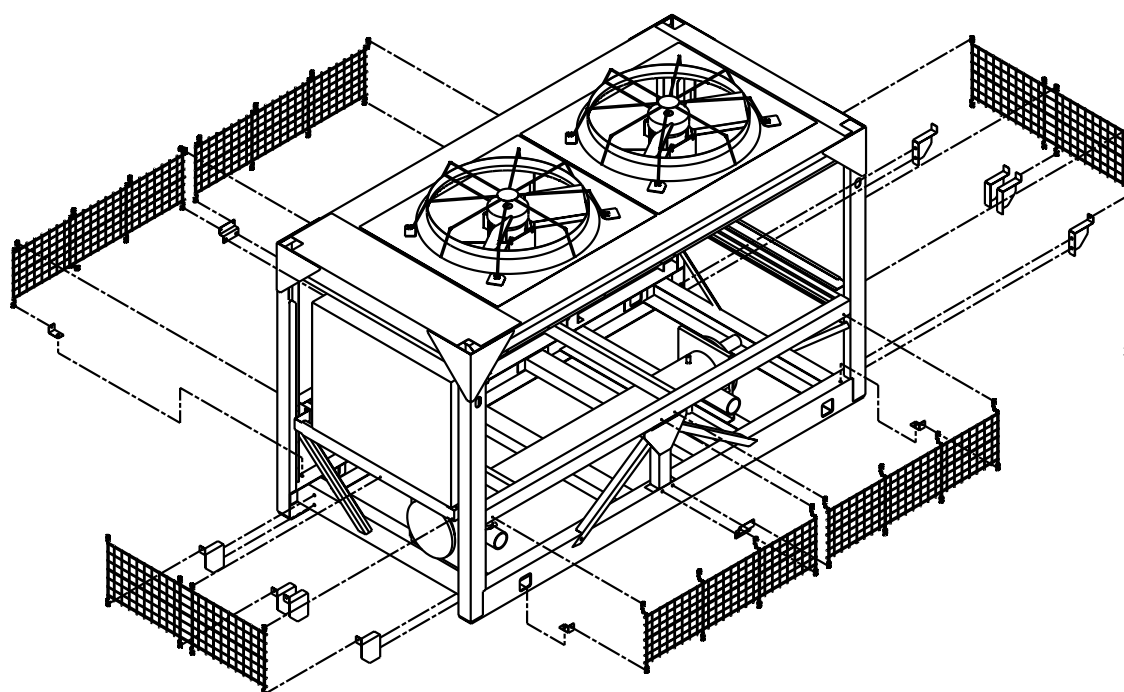
MODEL NUMBER YCAL-	WIRE ENCLOSURE	LOUVERED ENCLOSURE	WIRE / LOUVERED ENCLOSURE	LOUVERED ENCLOSURE CONDENSER ONLY
0043 (Top)	375-31869-000	375-31867-162	375-31867-162	375-31867-162
0043 (Bottom)	375-31870-000	375-31868-163	375-31870-000	N/A
0057 (Top)	375-31869-000	375-31867-162	375-31867-162	375-31867-162
0057 (Bottom)	375-31870-000	375-31868-163	375-31870-000	N/A
0073 (Top)	375-31834-000	375-31832-162	375-31832-162	375-31832-162
0073 (Bottom)	375-31835-000	375-31833-163	375-31835-000	N/A
0087 (Top)	375-31834-000	375-31832-162	375-31832-162	375-31832-162
0087 (Bottom)	375-31835-000	375-31833-163	375-31835-000	N/A
0107 (Top)	375-31834-000	375-31832-162	375-31832-162	375-31832-162
0107 (Bottom)	375-31835-000	375-31833-163	375-31835-000	N/A
0117 (Top)	375-31297-000	375-30996-162	375-30996-162	375-30996-162
0117 (Bottom)	375-31298-000	375-31299-163	375-31298-000	N/A
0133 (Top)	375-31297-000	375-30996-162	375-30996-162	375-30996-162
0133 (Bottom)	375-31298-000	375-31299-163	375-31298-000	N/A
0147 (Top)	375-31297-000	375-30996-162	375-30996-162	375-30996-162
0147 (Bottom)	375-31298-000	375-31299-163	375-31298-000	N/A
0157 (Top)	375-31297-000	375-30996-162	375-30996-162	375-30996-162
0157 (Bottom)	375-31298-000	375-31299-163	375-31298-000	N/A
0173 (Top)	375-31297-000	375-30996-162	375-30996-162	375-30996-162
0173 (Bottom)	375-31298-000	375-31299-163	375-31298-000	N/A
0197 (Top)	375-31808-000	375-31806-162	375-31806-162	375-31806-162
0197 (Bottom)	375-31809-000	375-31807-163	375-31809-000	N/A
0217 (Top)	375-31808-000	375-31806-162	375-31806-162	375-31806-162
0217 (Bottom)	375-31809-000	375-31807-163	375-31809-000	N/A
0237 (Top)	375-31808-000	375-31806-162	375-31806-162	375-31806-162
0237 (Bottom)	375-31809-000	375-31807-163	375-31809-000	N/A
0253 (Top)	375-31808-000	375-31806-162	375-31806-162	375-31806-162
0253 (Bottom)	375-31809-000	375-31807-163	375-31809-000	N/A

ENCLOSURE KIT OPTIONS (CONT'D)



31867-01

Louvered Enclosure Kit - Top Section



31870-01

Wire Enclosure Kit - Bottom Section

FIG. 15 – ENCLOSURE KIT OPTIONS (Top and Bottom Sections) - YCAL0043 AND YCAL0057 SHOWN (REF. TABLE 11, PAGE 34)

REMOTE CONTROL CENTER

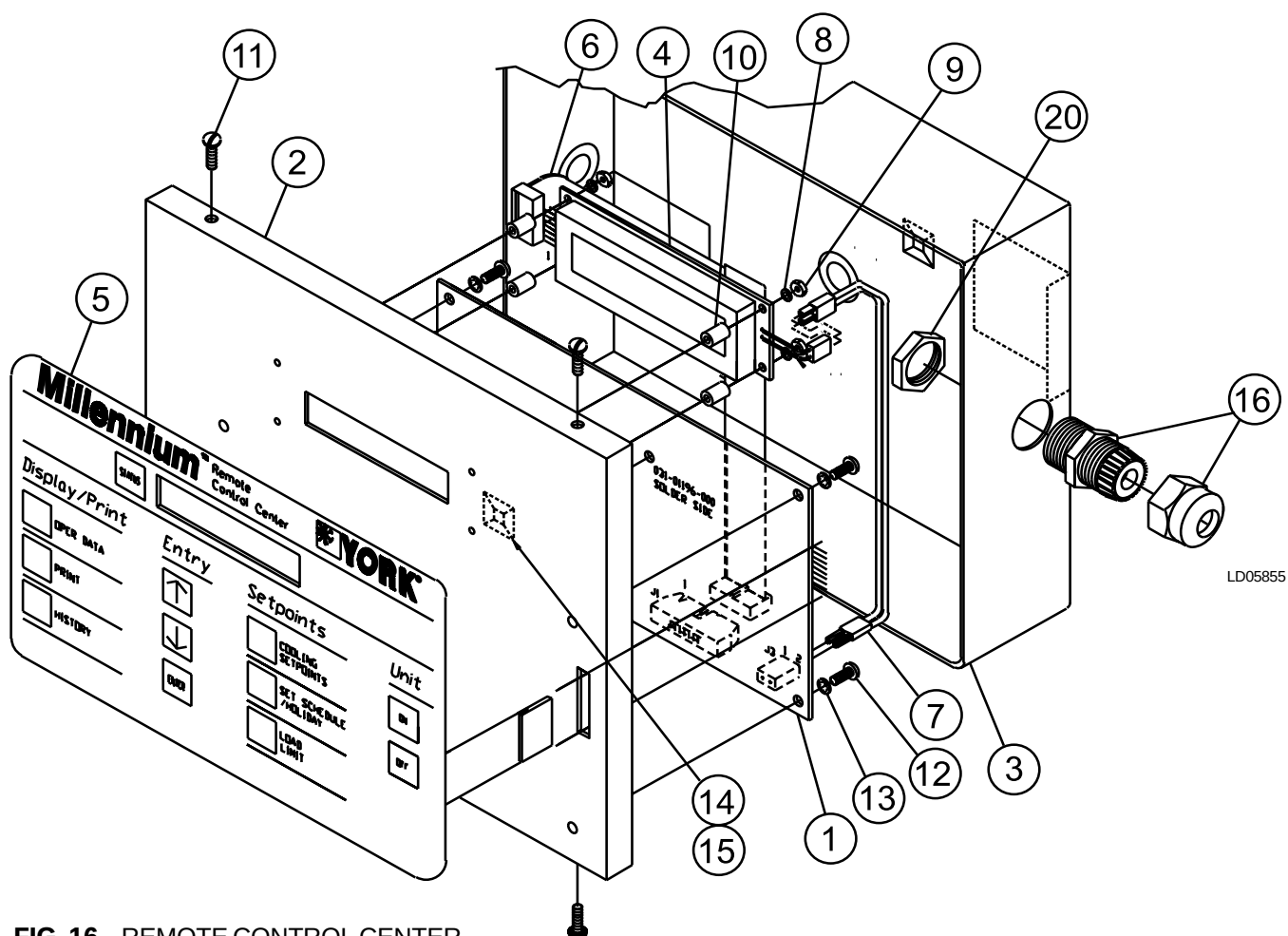
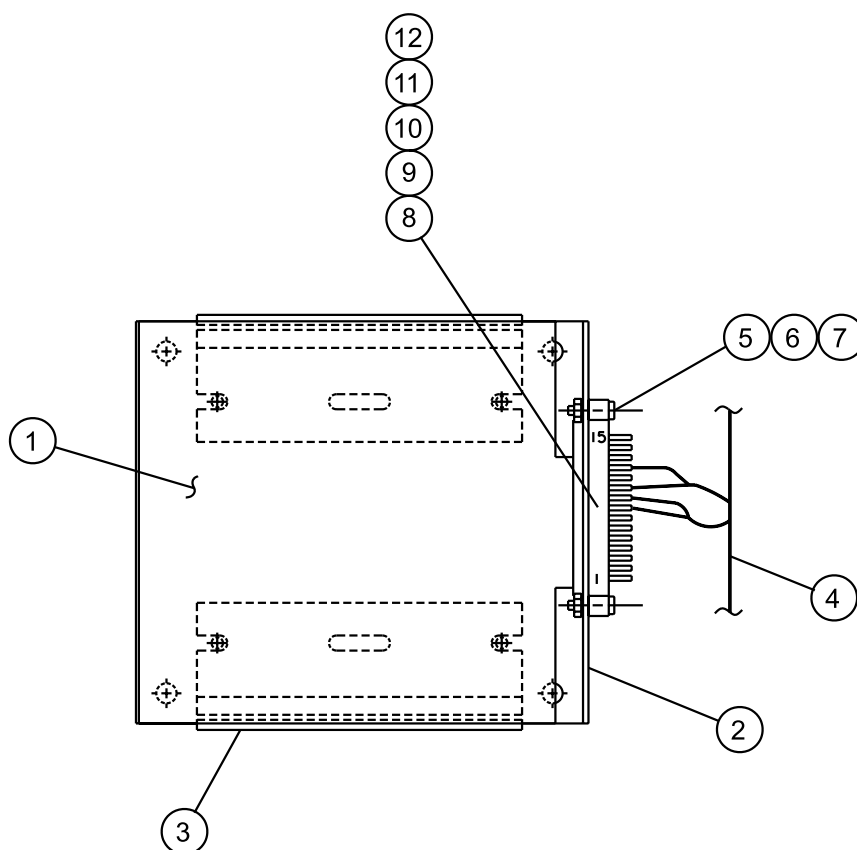


FIG. 16 – REMOTE CONTROL CENTER

TABLE 12 – REMOTE CONTROL CENTER PARTS

371-02485-107 (50 HZ)			
REF. NUMBER	QUANTITY	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 LG.	021-17575-000
11	1	TRANSFORMER	025-29917-002
14	3	CABLE TIE MOUNT	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-NM2

REMOTE CURRENT/TEMPERATURE RESET PARTS BREAKDOWN



LD05256

FIG. 17 – REMOTE CURRENT/TEMPERATURE RESET COMPONENTS
TABLE 13 – REMOTE CURRENT OR TEMPERATURE RESET KIT NUMBER 375-90914-000

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

* refer to **Table 14**
TABLE 14 – REMOTE RESET WIRING

REF. NUMBER	QUANTITY	DESCRIPTION	PART NUMBER
8	2	CONT 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

* Was P/N 025-21137-000 prior to Spring 1999.

RECOMMENDED SPARE PARTS

York Model YCAL Style SC Air Cooled Liquid Chillers

Suggested Spare Parts List for Critical Duty Applications

All requests for parts should be made to your local YORK Sales And Service Center shown on inside back cover.

TABLE 15 – RECOMMENDED SPARE PARTS - YCAL CHILLERS (50 Hz)

PAGE REF. & ITEM NUMBER	DESCRIPTION	MODEL NUMBER YCAL	PART NUMBER
Page 8, Item 1	Fan Motor	All	See Table 3
Page 8, Item 2	Fan Blade (Standard)	All	See Table 3
Page 8, Item 2	Fan Blade (Low Noise)	All	See Table 3
Page 12 & 13, Item 1	Valve, Thermal Expansion (Cooler)	All	See Table 4
Page 12 & 13, Item 3	Core, Dehydrator	All	See Table 4
Page 12 & 13, Item 4	Valve, Solenoid, Liquid Line	All	See Table 4
Page 16, Item Oil	Oil, Compressor	All	--
Page 24-29, Item 7	Contact, Fan	All	025-34448-000
Page 24-29, Item 8	Overload, Manual Fan Motor	All	025-34449-000
Page 24-29, Item 11	Micro Board	All	See Table 6
Page 24-29, Item 12	EPROM	All	See Table 6
Page 30, Item 1	Sensor, Outside Air Temp.	All	025-28663-001
Page 30, Item 2	Sensor, Water Temp.	All	025-29964-000
Page 30, Item 3	High Pressure Cutout Switch	All	025-28985-002
Page 30, Item 4	Low Pressure Cutout Switch	0043-0173	025-33707-000
Page 32, Note	Valve, Solenoid, Hot Gas By-Pass	All	025-34133-000
Page 32, Note	Transducer, Discharge Pressure	All	025-29139-001
Page 32, Note	Transducer, Suction Pressure	All	025-29583-000

YORK SERVICE OFFICES (NORTH AMERICA)

ALABAMA

Birmingham

YORK International Corp.
(205) 987-0458

ARIZONA

Phoenix

YORK International Corp.
(602) 220-9400

CALIFORNIA

Los Angeles

YORK International Corp.
(714) 897-0997

San Francisco

YORK International Corp.
(510) 426-1166

COLORADO

Denver

YORK International Corp.
(303) 649-1500

CONNECTICUT

Danbury

YORK International Corp.
(203) 730-8100

FLORIDA

Miami

YORK International Corp.
(305) 389-9675

Tampa

YORK International Corp.
(381) 621-1323

Orlando

YORK International Corp.
(407) 444-2261

GEORGIA

Atlanta

YORK International Corp.
(404) 925-0346

HAWAII

Honolulu

YORK International Corp.
(808) 596-0761

ILLINOIS

Chicago

YORK International Corp.
(708) 520-1910

INDIANA

Indianapolis

YORK International Corp.
(317) 595-3050

KENTUCKY

Louisville

YORK International Corp.
(502) 499-6020

LOUISIANA

New Orleans

YORK International Corp.
(504) 464-6941

MARYLAND

Baltimore/Washington

YORK International Corp.
(410) 720-6383

MASSACHUSETTS

Boston

YORK International Corp.
(781) 769-7950

MICHIGAN

Detroit

YORK International Corp.
(810) 689-7277

MINNESOTA

Minneapolis

YORK International Corp.
(612) 780-4446

MISSOURI

Kansas City

YORK International Corp.
(816) 221-9675

St. Louis

YORK International Corp.
(314) 770-0909

NEW JERSEY

Newark

YORK International Corp.
(908) 225-0606

NEVADA

Las Vegas

YORK International Corp.
(702) 873-2200

NEW YORK

Buffalo

YORK International Corp.
(716) 633-2172

New York

YORK International Corp.
(212) 843-1602

NORTH CAROLINA

Charlotte

YORK International Corp.
(704) 598-0000

Greensboro

YORK International Corp.
(336) 299-9675

Raleigh

YORK International Corp.
(919) 829-1700

OHIO

Cincinnati

YORK International Corp.
(513) 489-8871

Cleveland

YORK International Corp.
(216) 447-0696

Columbus

YORK International Corp.
(614) 841-5242

PENNSYLVANIA

Philadelphia

YORK International Corp.
(610) 640-2320

Pittsburgh

YORK International Corp.
(412) 364-6600

York (HQ)

YORK International Corp.
(717) 771-7150

SOUTH CAROLINA

Greenville

YORK International Corp.
(803) 297-4822

TENNESSEE

Kingsport

YORK International Corp.
(615) 349-2450

Nashville

YORK International Corp.
(615) 833-9675

TEXAS

Austin

YORK International Corp.
(512) 458-4575

Dallas

YORK International Corp.
(214) 241-1219

Houston

YORK International Corp.
(713) 782-5200

San Antonio

YORK International Corp.
(210) 496-6631

UTAH

Salt Lake City

YORK International Corp.
(801) 261-1200

VIRGINIA

Richmond

YORK International Corp.
(804) 359-2600

Newport News

YORK International Corp.
(804) 873-0362

WASHINGTON

Seattle

YORK International Corp.
(206) 251-9145

CANADA

Ottawa, Ontario

(613) 596-9111

Toronto, Ontario

(905) 890-6812

Laval, Quebec

(514) 387-6000

YORK Applied Systems field office listing subject to change.

See us on the web at <http://www.york.com> for additional information.

