



PACKAGED LIQUID CHILLERS
AIR COOLED - RECIPROCATING HERMETIC

RENEWAL PARTS

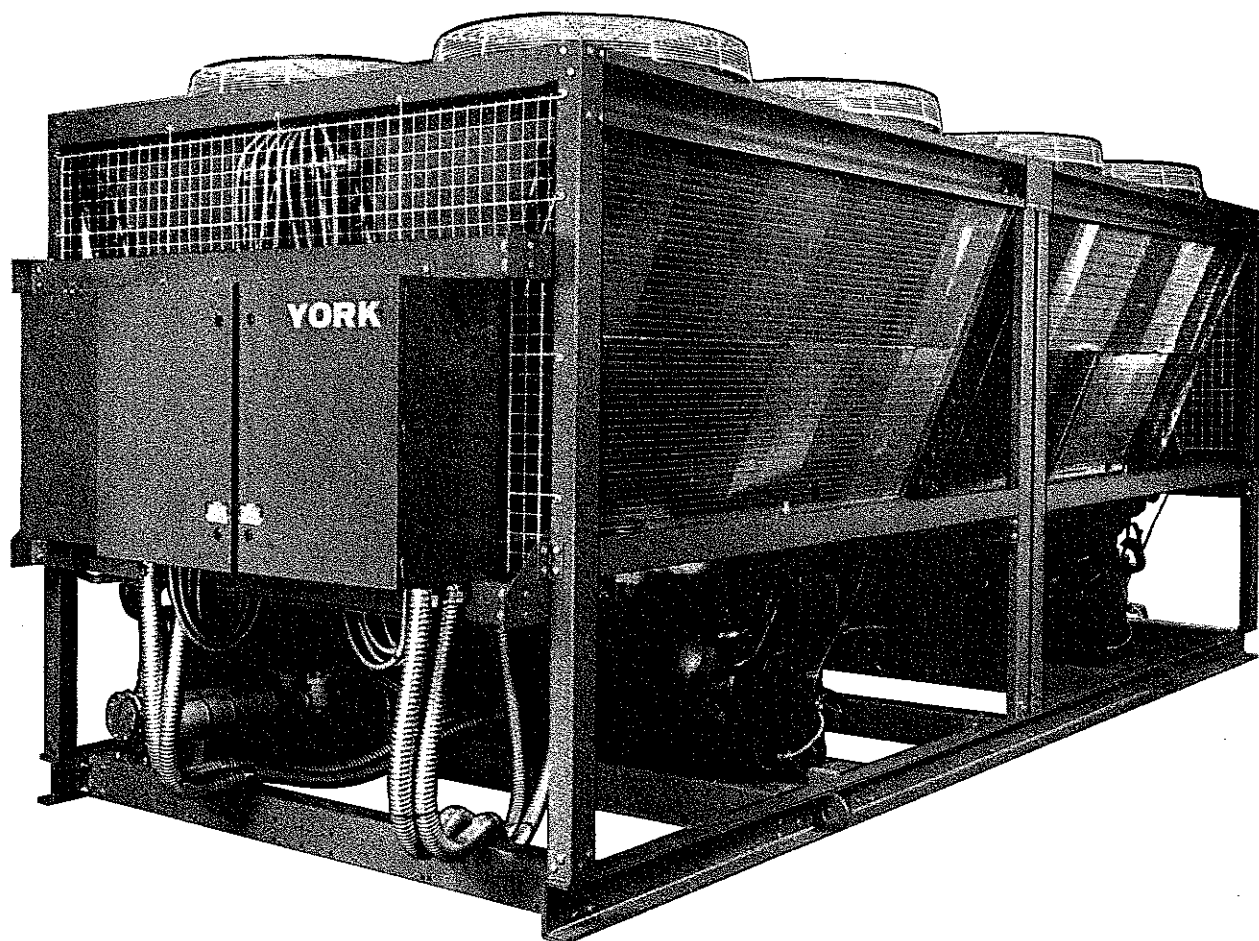
Supersedes: See Back

695

FORM 150.65-RP2

**YCAJ66HF6, YCAJ76HF6, YCAJ77KF6, YCAJ87KF6,
YCAJ88NH8, YCAJ98NH8, YCAJ99NH8**

STYLE A



WARNING

HIGH VOLTAGE
is used in the operation of this equipment
DEATH OR SERIOUS INJURY
may result if personnel fail to observe precautions.

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

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

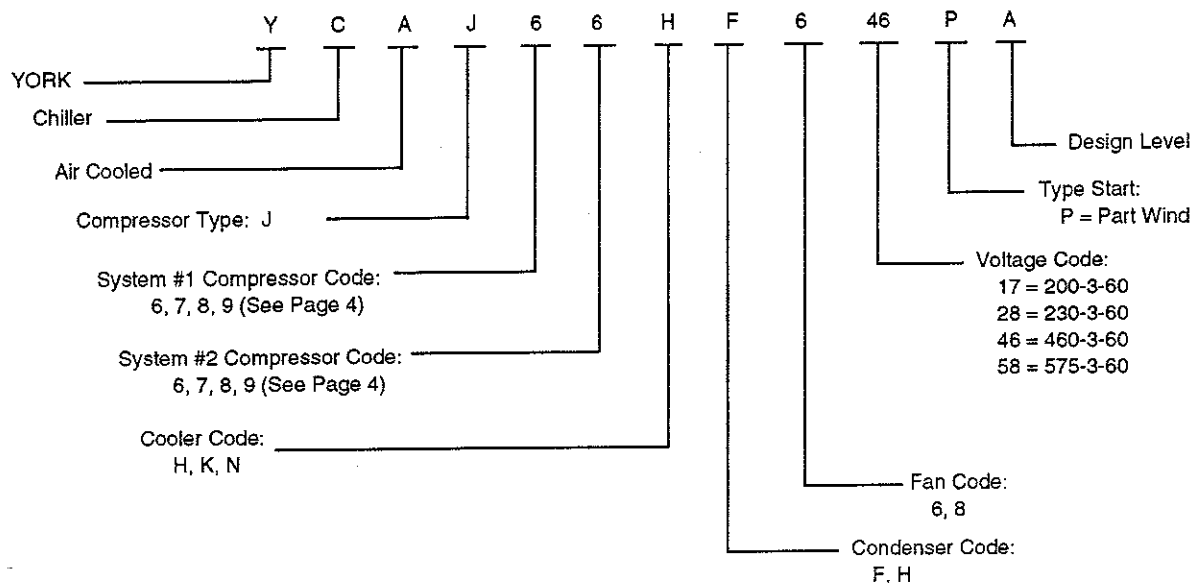
Be careful not to contact high voltage connections when installing or operating this equipment.

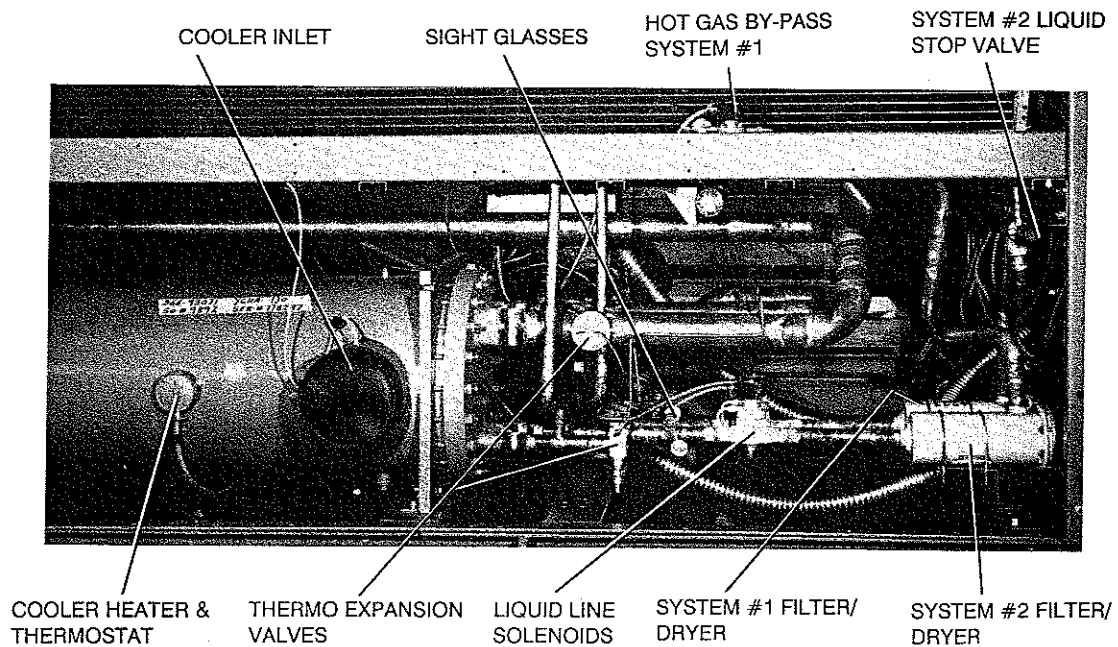
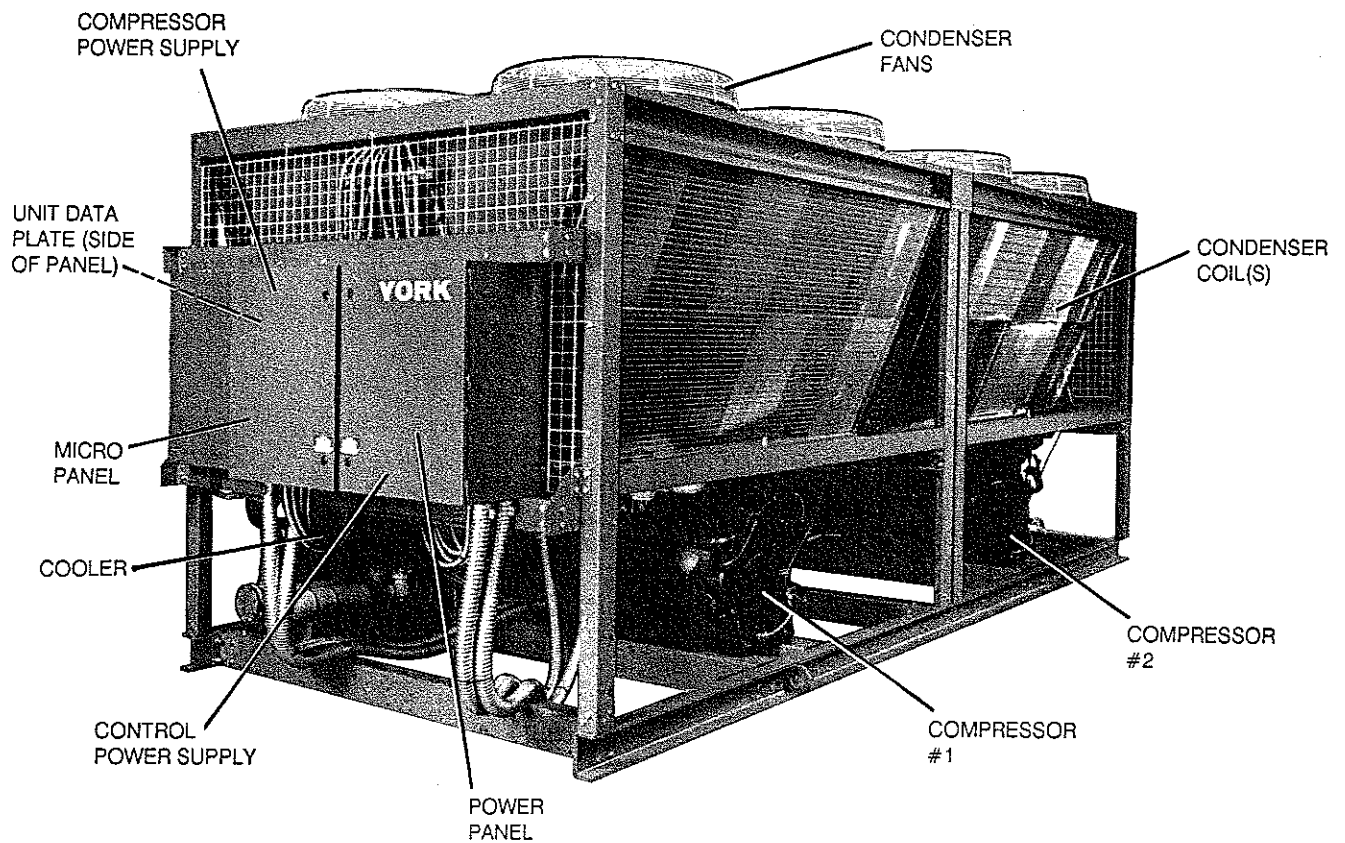
LOW VOLTAGE

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

UNIT NOMENCLATURE

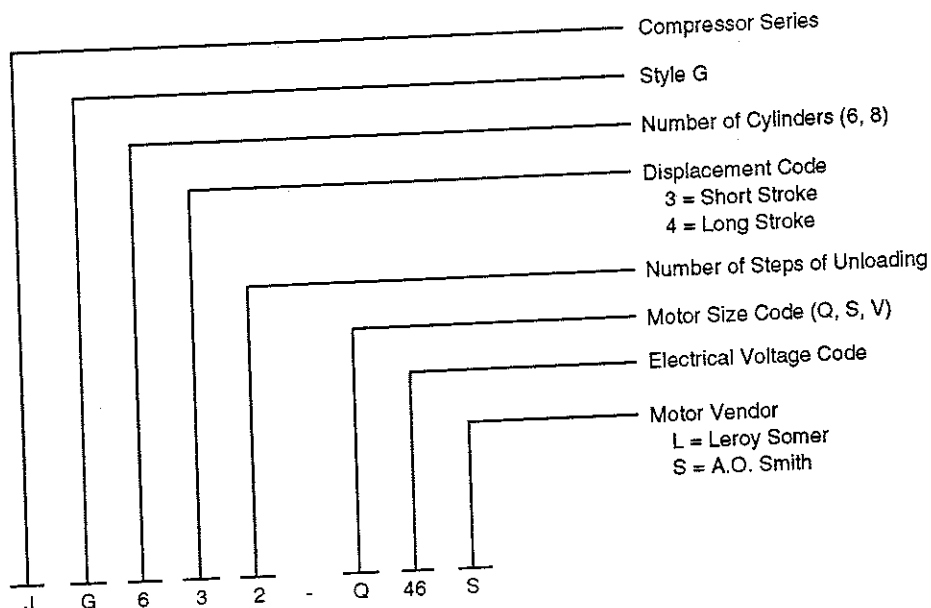
The model number denotes the following characteristics of the unit:





MAJOR UNIT COMPONENTS

COMPRESSOR NOMENCLATURE



COMPRESSOR MODEL NUMBERS

UNIT MODEL		YCAJ66HF6	YCAJ76HF6	YCAJ77KF6	YCAJ87KF6	YCAJ88NH8	YCAJ98NH8	YCAJ99NH8
COMPRESSOR MODEL	SYSTEM NO. 1	JG632-Q	JG642-S	JG642-S	JG832-S	JG832-S	JG842-V	JG842-V
	SYSTEM NO. 2	JG632-Q	JG632-Q	JG642-S	JG642-S	JG832-S	JG832-S	JG842-V

For replacement compressors and/ or parts, refer to Form 180.23-RP4.
Remanufactured compressors are available from the Wheeling, Illinois manufacturing facility.
Contact the local YORK Applied Systems Office.

COMPRESSOR MODEL CONTACTORS

VOLTAGE CODE	TYPE START	SYSTEM	UNIT MODEL						
			YCAJ66HF6	YCAJ76HF6	YCAJ77KF6	YCAJ87KF6	YCAJ88NH8	YCAJ98NH8	YCAJ99NH8
-17	P	1	024-25512	024-25512	024-25512	024-25512	024-25512	-	-
		2	024-25512	024-25512	024-25512	024-25512	024-25512	-	-
-28	P	1	024-25541	024-25541	024-25541	024-25512	024-25512	-	-
		2	024-25541	024-25541	024-25541	024-25512	024-25512	-	-
-46	P	1	024-25542	024-25542	024-25542	024-25542	024-25542	024-25541	024-25541
		2	024-25542	024-25542	024-25542	024-25542	024-25542	024-25541	024-25541
-58	P	1	024-25543	024-25543	024-25543	024-25543	024-25543	024-25542	024-25542
		2	024-25543	024-25543	024-25543	024-25543	024-25543	024-25542	024-25542

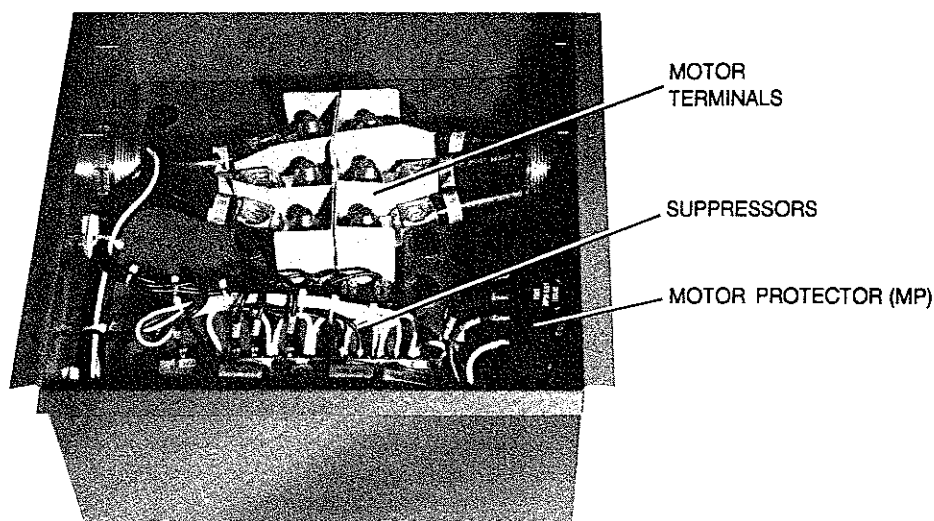
NOTES:

* = Recommended Stock Spare Parts

P = Part Winding

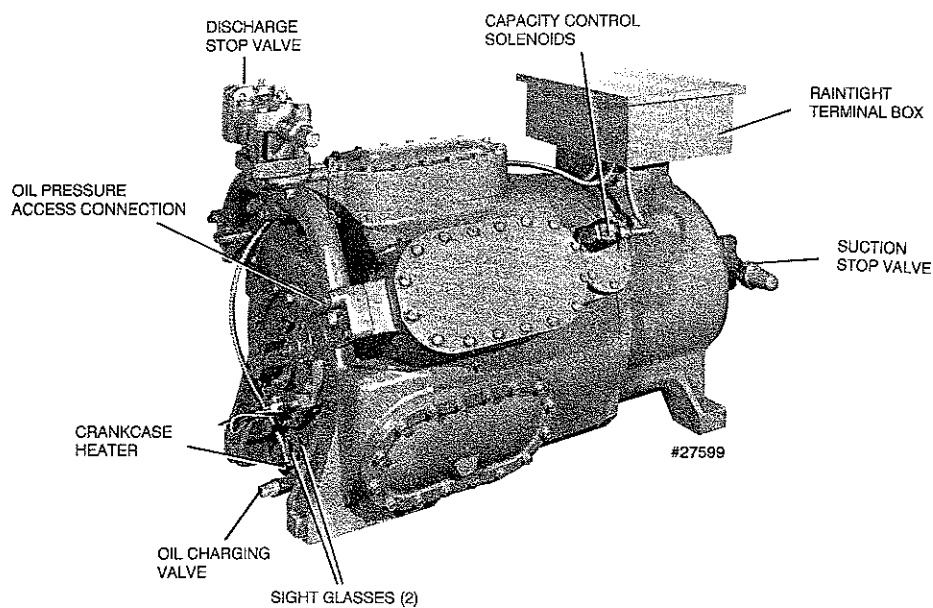
Part Winding (Start) compressors require two (2) contactors per compressor (system).

Contactors include suppressors.



#27299

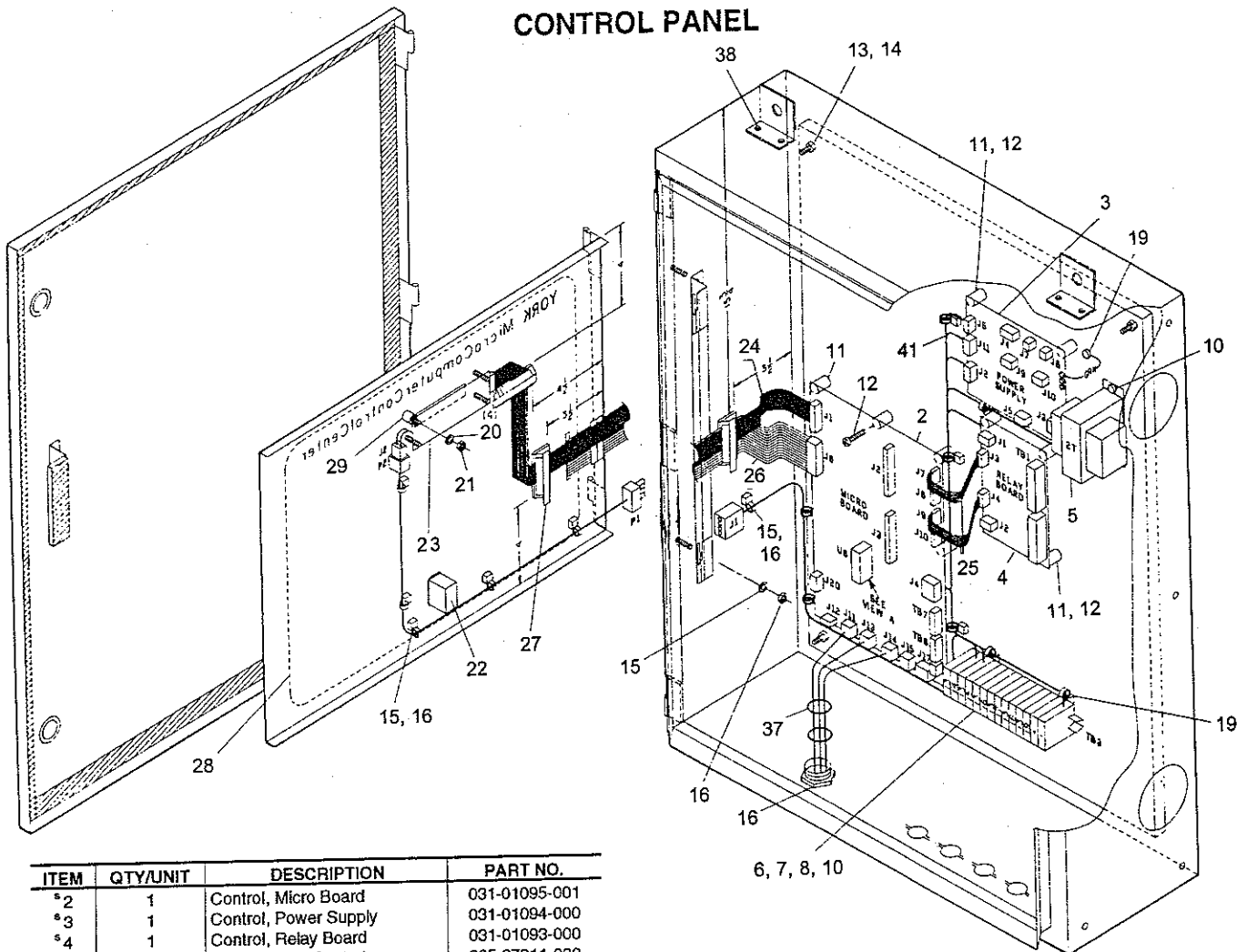
COMPRESSOR TERMINAL BOX



#27599

COMPRESSOR COMPONENTS

CONTROL PANEL



ITEM	QTY/UNIT	DESCRIPTION	PART NO.
*2	1	Control, Micro Board	031-01095-001
*3	1	Control, Power Supply	031-01094-000
*4	1	Control, Relay Board	031-01093-000
5	1	Transformer, Control	025-27911-000
6	14	Block, Terminal	025-20945-000
7	1	End, Terminal Block	025-20946-000
8	1	Strip, Marker (14 Pole)	025-29159-000
9	2	Catch, Magnetic	029-20878-000
10	5	Scr., Tap TH. #8 x 3/8 Lg	021-13783-000
11	16	Nut, Expansion	021-14661-000
12	16	Scr., Tap Pan Hd. #8 x 1-1/4	021-14667-000
13	4	Lock Washer, TH. Int. 3/8	021-01155-000
14	4	Nut, Hex 3/8-16 UNC-2B	021-00467-000
15	10	Lock Washer, TH. Int. #10	021-01137-000
16	10	Nut, Hex #10-24	021-08282-000
17	3	Hsg., Connr. Plug, Mini-Univ.	025-28383-000
18	1	Connr., Cable, Str. 3/4	025-09389-000
19	14	Scr., Tap, Pan Hd. #10 x 1/2	021-13789-000
20	4	Lock Washer, Hel. Spg. #4	021-17576-000
21	4	Nut, Hex #4-40	021-10056-000
22	1	Switch, Unit ON/OFF	024-25517-000
23	1	Display	031-01110-000
24	1	Ribbon Cable	031-01109-211
25	2	Ribbon Cable	031-01109-212
26	1	Ribbon Cable	031-01109-213
27	3	Clamp, Ribbon Wire	025-25156-000
28	1	Switch, Keypad	024-25504-000
29	4	Spacer, Nylon 7/16 Lg.	021-17575-000
30	1	Harness, Sensor - Suct. #1	371-01226-231
31	1	Harness, Sensor - Oil #1	371-01226-233
32	1	Harness, Sensor - Suct. #2	371-01226-232
33	1	Harness, Sensor - Oil #2	031-01226-234
34	1	Harness, Sensor - LWT	371-01226-241
35	1	Harness, Sensor - EWT	371-01226-242
36	1	Harness, Sensor - OAT	371-01226-243
37	3	Strap, Cable	025-18167-000
38	4	Nut, KEPS 1/4-20	021-17269-000
39	1	Label, Caution	035-03908-000
*40	1	EPROM	031-01096-001
41	1	Harness, Hinged Panel	571-01226-212
*42	3	Suppressor for Options	031-00808-000

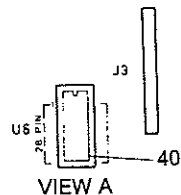
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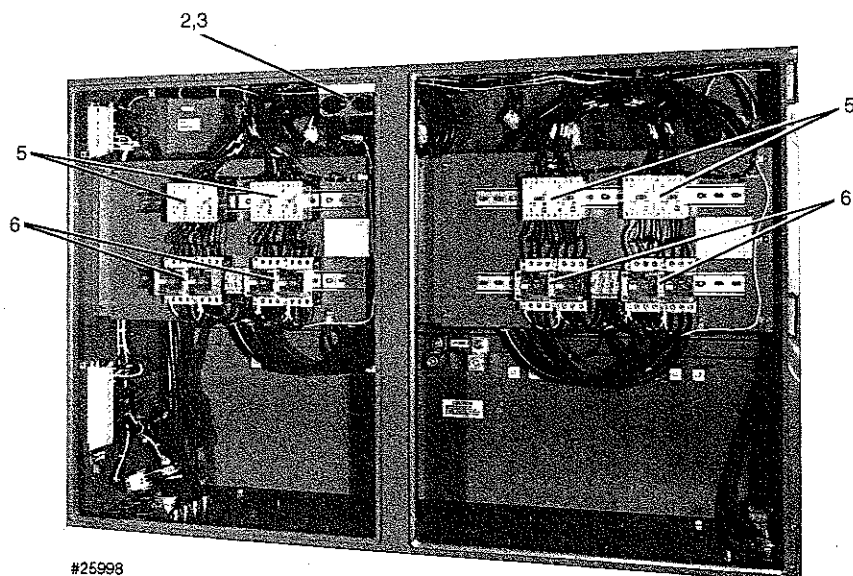
* = Recommended Stock Spare Parts

* = Not shown, shipped loose for field use to place across the coil of a relay or contactor supplying dry contacts in the application of:

- Alarm Circuit Relays
- Pump Start Pilot Relays
- Flow Switch Inputs
- BAS Inputs
- Any relay or contactor connected to the Control Panel

Not Shown.
Sensor Harness W/O
Sensor

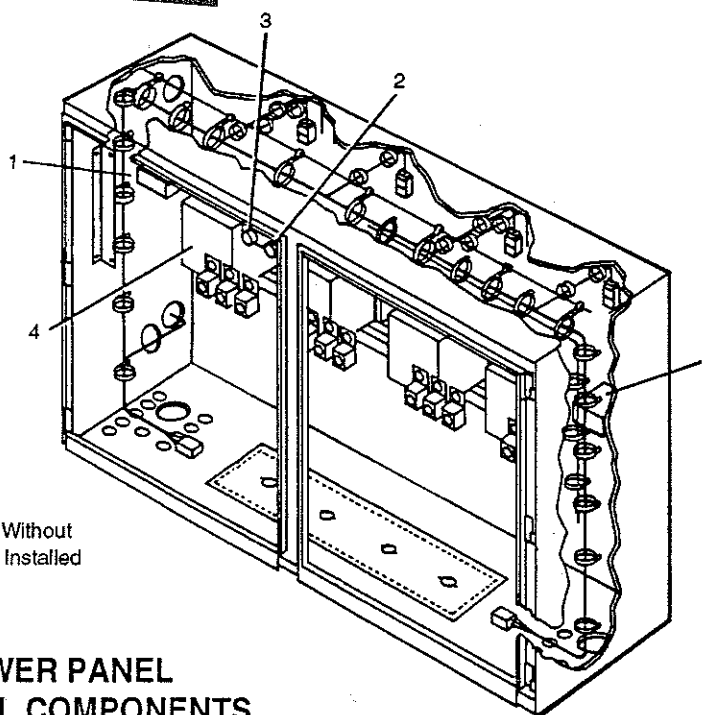




#25998

Power Panel Shown With
Fan Contactor Panel Installed

POWER PANEL



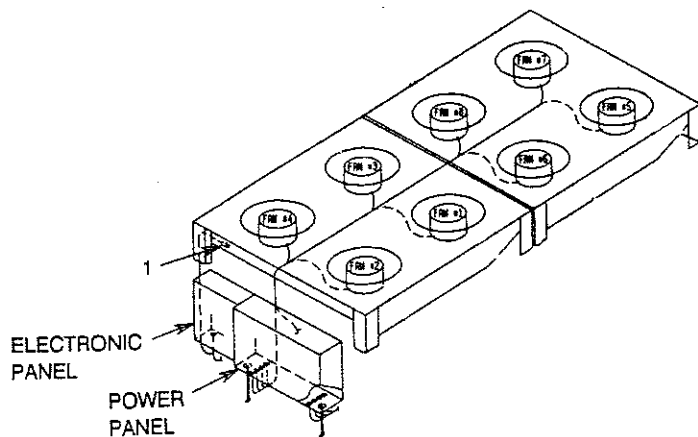
Power Panel Shown Without
Fan Contactor Panel Installed

POWER PANEL CONTROL COMPONENTS

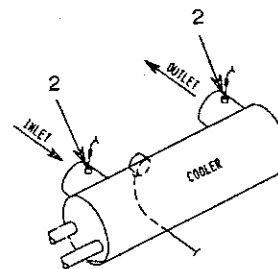
ITEM NO.	QTY PER UNIT	DESCRIPTION	VOLT. CODE	PART NO. ALL MODELS
1	2	Transformer, Current (1CT, 2CT)	ALL	025-27408-000
^s 2	1	FUSES	ALL	025-27922-000
^s 3	1	Electric Power Supply Circuit (5 amp), 2 FU Control Circuit (20 amp), 1FU	ALL	025-28967-000
^s 4	See p. 5	Contractor (w/Suppressor), Compressor	ALL	See p. 5
^s 5	8	Overload, Fan 4-6.3 FLA 6.3-10 FLA 10-16 FLA		024-25520-000 024-25519-000 024-25518-000
^s 6	8	Contactor (w/Suppressor), Fan	ALL	See Table Below

VOLT. CODE	UNIT MODEL						
	YCAJ66HF6	YCAJ76HF6	YCAJ77KF6	YCAJ87KF6	YCAJ88NH8	YCAJ98NH8	YCAJ99NH8
-17	024-25521	024-25521	024-25521	024-25521	024-25584	024-25584	024-25584
-28	024-25521	024-25521	024-25521	024-25521	024-25584	024-25584	024-25584
-46	024-25522	024-25522	024-25522	024-25522	024-25526	024-25526	024-25526
-58	024-25522	024-25522	024-25522	024-25522	024-25526	024-25526	024-25526

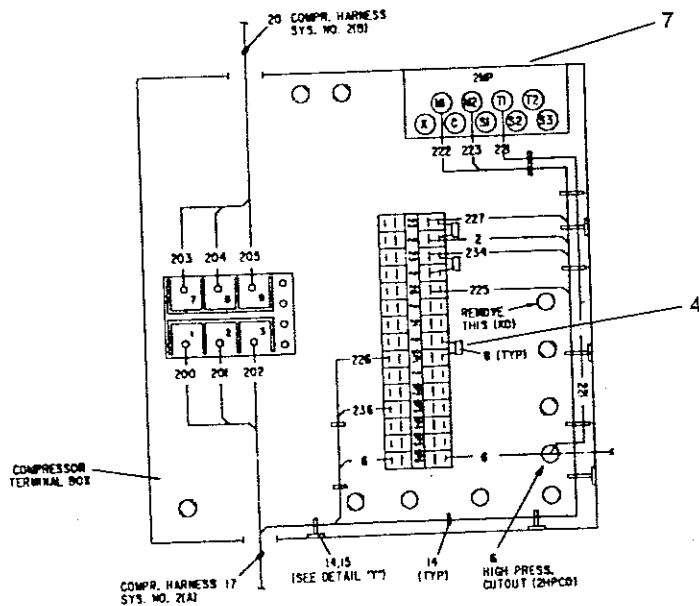
^s Recommended Stock Spare Part



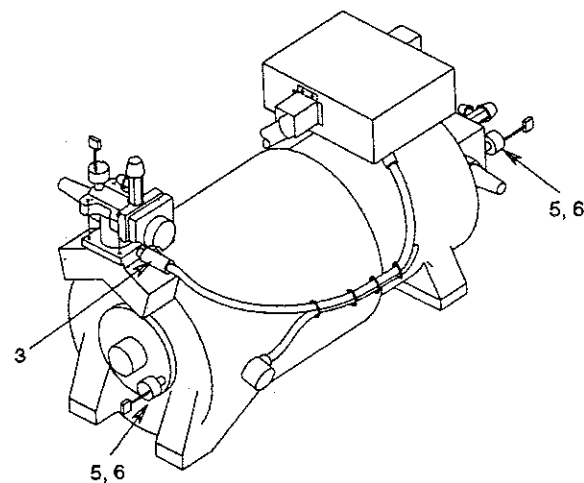
CONDENSER FANS



COOLER



"J" COMPRESSOR SYSTEM #1
(STD. STEP UNLOADING & OPTIONAL HOT GAS BYPASS)

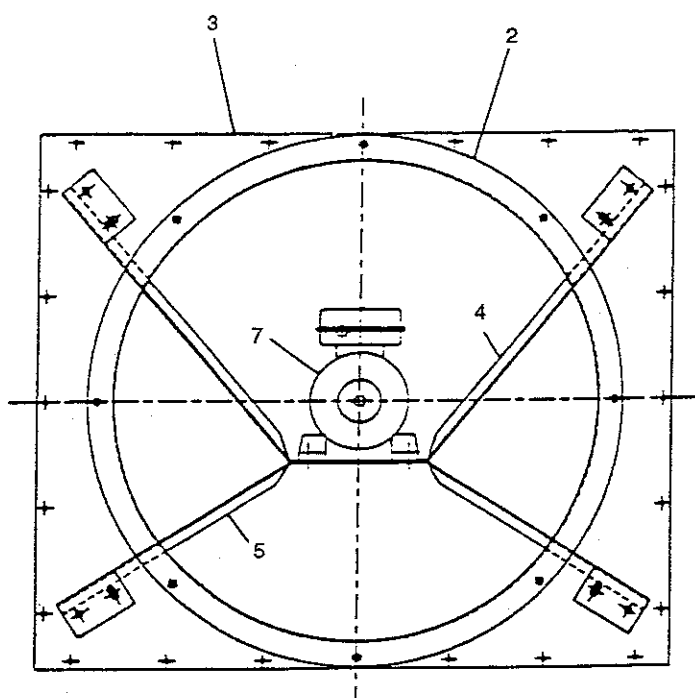


COMPRESSORS
(SYSTEM NO. 1 & NO. 2)

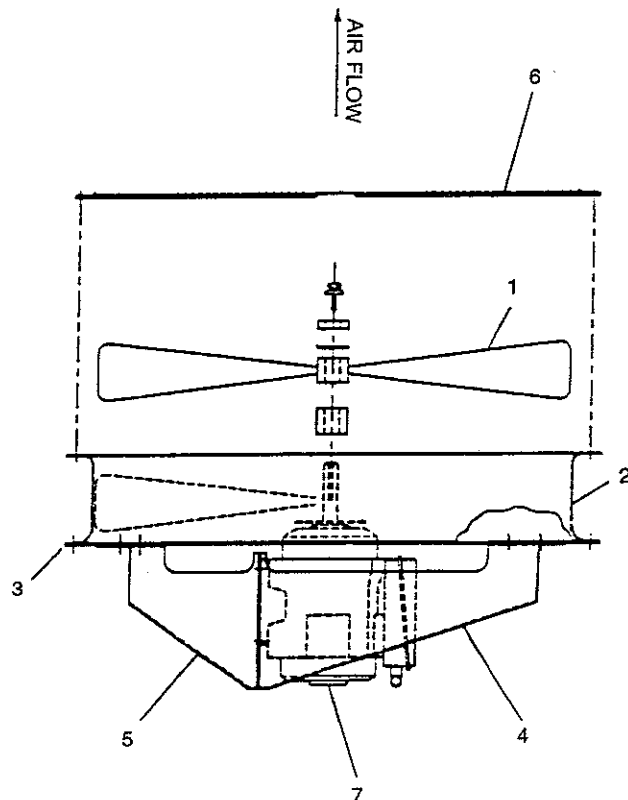
CONTROL COMPONENTS

ITEM NO.	QTY PER UNIT	DESCRIPTION	VOLT. CODE	PART NO. ALL MODELS
^s 1	1	SENSORS	ALL	025-28663-001
^s 2	2	Outside Air (OAT)	ALL	025-29964-000
^s 3	2	Water Temperature (LWT, RWT)	ALL	025-28985-002
^s 4	6	High Pressure Cutoff	ALL	031-01117-000
^s 5	4	Suppressor, Compressor Unloading Solenoids	ALL	025-29139-002
6	4	and Liquid Line Solenoids	ALL	023-16272-000
7	2	Transducer (Oil & Suction Pressure)	ALL	025-27522-000
8	1	Brass Adaptor (Use with Item 5)	ALL	013-00898-000
		Module, Motor Protector		
		Heat Conductive Compound (Use with Item 2)		

^s Recommended Stock Spare Part



TOP VIEW
(LESS IMPELLER & GUARD)

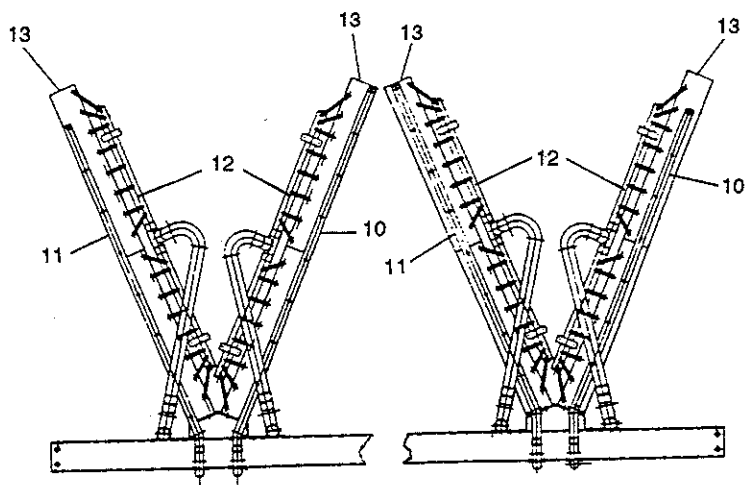


FAN COMPONENTS

ITEM NO.	DESCRIPTION	UNIT MODEL						
		YCAJ66HF6	YCAJ76HF6	YCAJ77KF6	YCAJ87KF6	YCAJ88NH8	YCAJ98NH8	YCAJ99NH8
^s 1	Blade	026-33615	026-33615	026-33615	026-33615	026-33664	026-33664	026-33664
2	Orifice	326-32804	326-32804	326-32804	326-32804	362-32804	326-32804	026-32804
3	Orifice Plate	375-15533	375-15533	375-15533	375-15533	375-15533	375-15533	375-15533
4	Support, Motor	075-01902	075-01902	075-01902	075-01902	075-01899	075-01899	075-01899
5	Support, Motor	075-01901	075-01901	075-01901	075-01901	075-01898	075-01898	075-01898
6	Guard	026-32807	026-32807	026-32807	026-32807	026-32807	026-32807	026-32807
^s 7	Motor	All Motor Part Numbers Begin with the Prefix "024-" Followed by Number Listed Below (Eg. 024-25179-002)						
		Volt. Code						
		-17	25179-002	25179-002	25179-002	25179-002	24604-002	24604-002
		-28	25179-002	25179-002	25179-002	25179-002	24604-002	24604-002
		-46	29179-001	29170-001	29179-001	29179-001	24604-001	24604-001
		-58	25250-000	25250-000	25250-000	25250-000	24758-000	24758-000

^s Recommended Stock Spare Part

UNIT MODEL	SYSTEM	COIL
YCAJ66HF6	1	3
	2	3
YCAJ76HF6	1	3
	2	3
YCAJ77KF6	1	3
	2	3
YCAJ87KF6	1	3
	2	3
YCAJ88NH8	1	4
	2	4
YCAJ96NH8	1	4
	2	4
YCAJ99NH8	1	4
	2	4



3-ROW COIL

4-ROW COIL

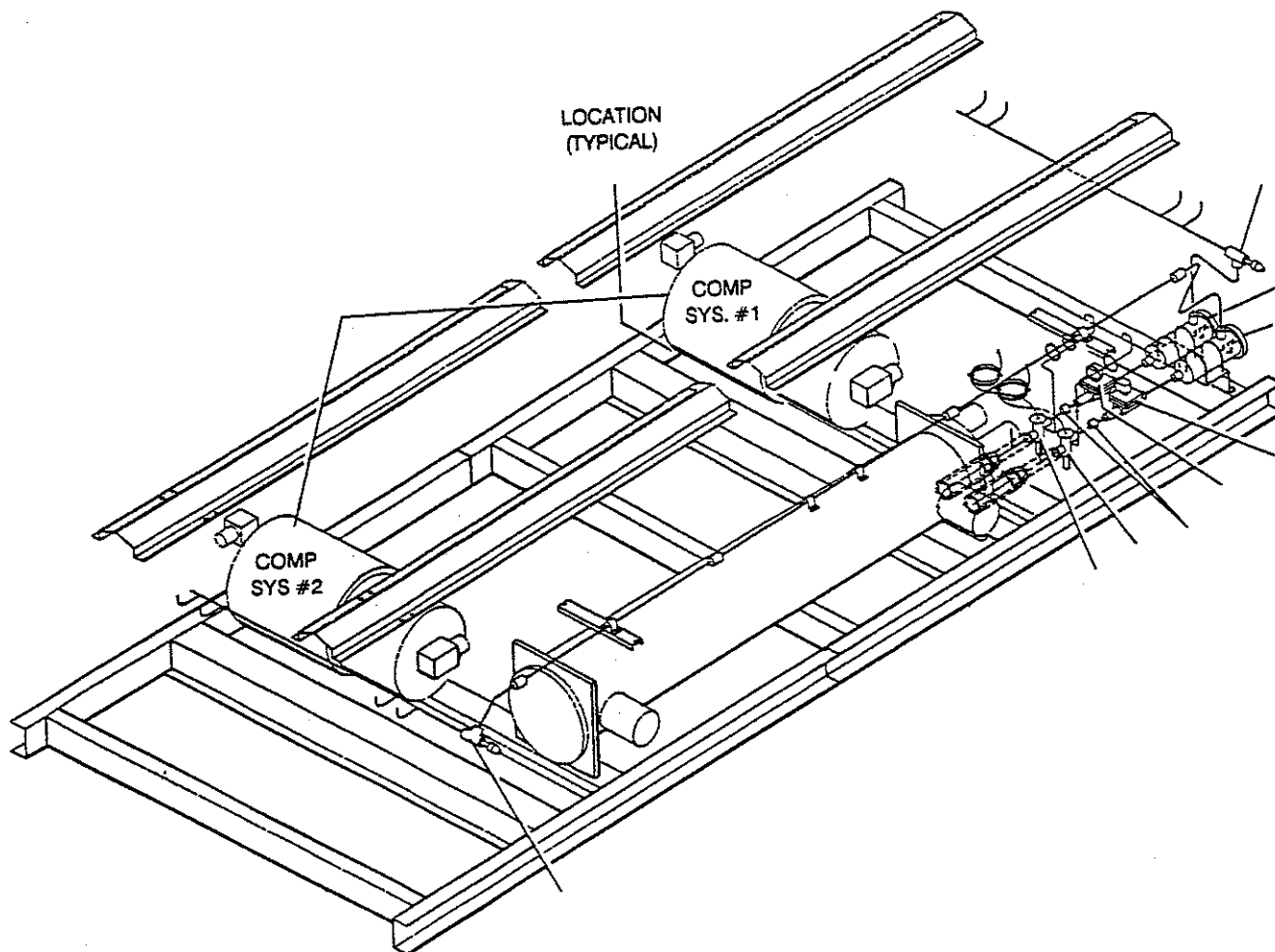


FIG. 1 – UNIT REFRIGERANT COMPONENTS

UNIT COMPONENTS (SEE FIGURE 1)

ITEM NO.	QTY PER UNIT	DESCRIPTION	UNIT MODEL						
			YCAJ66HF6	YCAJ76HF6	YCAJ77KF6	YCAJ87KF6	YCAJ88NH8	YCAJ98NH8	YCAJ99NH8
^s 1	2	Valve, Thermal Expansion	025-25944	025-25944	025-25944	025-25944	025-25944	025-25944	025-21944
2	1	Dehydrator, Body (Replaceable Core)							
		System 1	026-21055	026-21055	026-16960	026-16960	026-16960	026-16960	026-16960
	1	System 2	026-21055	026-21055	026-21055	026-21055	026-16960	026-16960	026-16960
^s 3		Dehydrator Core (Use with Item 2)	026-18328	026-18328	026-18328	026-18328	026-18328	026-18328	026-18328
		Quantity per Unit	4	4	5	5	6	6	6
4	1	Valve, Liquid Solenoid							
		System 1	025-28376	025-28376	025-28375	025-28375	025-28375	025-28375	025-28375
	1	System 2	025-28376	025-28376	025-28376	025-28376	025-28375	025-28375	025-28375
5	2	Moisture Indicat., Body	026-32398	026-32398	026-32398	026-32398	026-32398	026-32398	026-32398
6	2	Moisture Indicat., Cap Assembly	026-32800	026-32800	026-32800	026-32800	026-32800	026-32800	026-32800
7	2	Valve, Liquid Stop	022-08740	022-08740	022-08740	022-08740	022-08740	022-08740	022-08740
8	2	Compressor	See Page 4						
9	8	Pad, Isolator	066-92335	066-92335	066-92335	066-92335	066-92325	066-92325	066-92335

ALUMINUM FIN COILS - STANDARD

10	4	Header, Liquid (RH)	375-15568	375-15568	375-15568	375-15568	375-15534	375-15534	375-15534
11	4	Header, Liquid (LH)	375-15570	375-15570	375-15570	375-15570	375-15536	375-15536	375-15536
12	8	Header, Discharge	375-15566	375-15566	375-15566	375-15566	375-15539	375-15539	375-15539
13	16	Coil, Condenser Number of Rows	026-33628 3	026-33628 3	026-33628 3	026-33628 3	026-32846 4	026-32846 4	026-32846 4

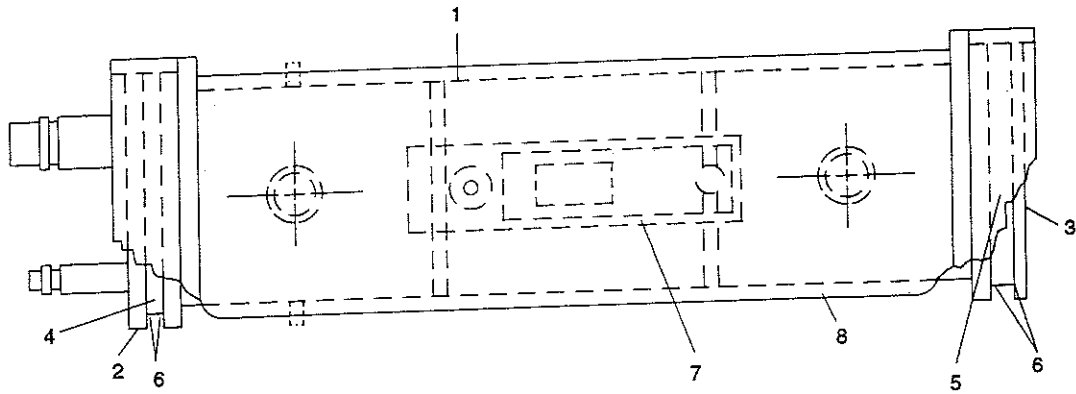
PHENOLIC-COATED COILS - OPTION

10	4	Header, Liquid (RH)	375-18679	375-18679	375-18679	375-18679	375-18691	375-18691	375-18691
11	4	Header, Liquid (LH)	375-18680	375-18680	375-18680	375-18680	375-18692	375-18692	375-18692
12	8	Header, Discharge	375-18678	375-18678	375-18678	375-18678	375-18690	375-18690	375-18690
13	16	Coil, Condenser Number of Rows	326-33671 3	326-33671 3	326-33671 3	326-33671 3	326-33669 4	326-33669 4	326-33669 4

COPPER FIN COILS - OPTION

10	4	Header, Liquid (RH)	375-15568	375-15568	375-15568	375-15568	375-15534	375-15534	375-15534
11	4	Header, Liquid (LH)	375-15570	375-15570	375-15570	375-15570	375-15536	375-15536	375-15536
12	8	Header, Discharge	375-15566	375-15566	375-15566	375-15566	375-15539	375-15539	375-15539
13	16	Coil, Condenser Number of Rows	026-33670 3	026-33670 3	026-33670 3	026-33670 3	026-33668 4	026-33668 4	026-33668 4

^s Recommended Stock Spare Part

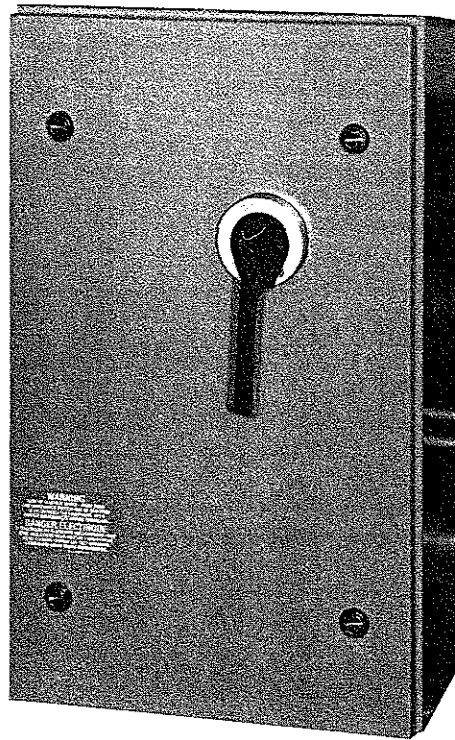


COOLER COMPONENTS

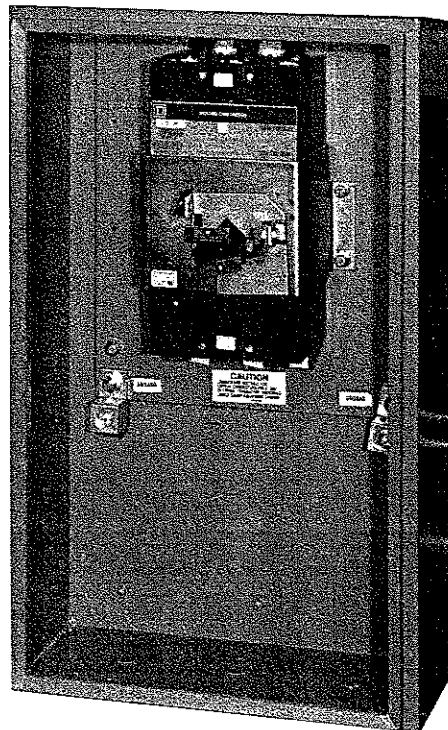
ITEM NO.	QTY PER UNIT	DESCRIPTION	UNIT MODEL						
			YCAJ66HF6	YCAJ76HF6	YCAJ77KF6	YCAJ87KF6	YCAJ88NH8	YCAJ98NH8	YCAJ99NH8
1	1	Cooler, Less Insulation & Heater (Includes Items 2 - 6)	375-17511	375-17511	375-17513	375-17513	375-17517	375-17517	375-17517
2	1	Head, Connection End	375-18009	375-18009	375-18011	375-18011	375-17058	375-17058	375-17058
3	1	Head, Back End	375-18008	375-18008	375-18013	375-18013	375-17057	375-17057	375-17057
4	1	Pass Baffle, Connection End	375-17085	375-17085	375-18024	375-18024	375-17059	375-17059	375-17059
5	1	Pass Baffle, Connection End	075-17084	075-17084	075-18022	075-18022	075-17049	075-17049	075-17049
^s 6 ¹	4	Gasket, Pass Baffle & Head	075-17082	075-17082	075-18023	075-18023	075-17050	075-17050	075-17050
^s 7	1	Heater	025-22690	025-22690	-	-	-	-	-
	1		025-22691	025-22691	-	-	-	-	-
	2		-	-	025-22691	025-22691	025-22691	025-22691	025-22691
8	3	Insulation, 3/4" x 49" x 65"	010-04198	010-04198	010-04198	010-04198	010-04198	010-04198	010-04198

NOTES:

- ^s Recommended Stock Spare Part
 1. When replacing gasket, Item 6, use:
^s Sealer, Gasket, 013-02827
^s Primer, 013-01753



#26288



#26289

FIG. 2 – POWER DISCONNECT SWITCH (OPTION)

COMPONENTS FOR UNIT OPTIONS ¹

ITEM NO.	QTY PER UNIT	DESCRIPTION	VOLT. CODE	ALL MODELS
REMOTE COOLER ²				
A	2	Valve, Thermal Expansion	ALL	See Table on Page 15 for Unit Models
B	1	Dehydrator, Body (Replaceable Core)	ALL	
	1	System 1		
		System 2		
C	-	Dehydrator Core (Use with Item C)	ALL	
		Quantity Required Per Unit		
D	1	Valve, Liquid Solenoid	ALL	
	1	System 1		
		System 2		
POWER DISCONNECT SWITCH (PDS)				
E	1	Switch, Disconnect (See Fig. 2)	-17 -28 -46 -58	
CHICAGO CODE				
F	2	Valve Relief	ALL	
CONTROL TRANSFORMER (1T)				
G	1	Transformer	-17 -28 -46 -58	025-29627-001 025-29627-002 025-29627-002 025-29627-004
H	2	Fuse, Transformer (15 amp), 3FU, 4FU	-17 -28 -46 -58	025-27699-000 025-27509-015 025-25584-000 025-21145-000
PUMP CONTROL KIT/RELAY BOARD KIT				
I	1	Relay Control Board	ALL	031-01093-000
DISCHARGE PRESSURE READOUT				
J	2 *	Transducer, Discharge Pressure	ALL	025-29139-001
K	2 *	Adaptor, Transducer (Use with Item J)	ALL	023-16272-000
LOW AMBIENT KIT ³				
L	2	Fan Contactor with suppressor	ALL	024-25545-000
LOADMINDER (HOT GAS BYPASS) ⁴				
M	2	STANDARD UNIT Valve, Regulator, Hot Gas	ALL	025-27647-000
N	2	Suppressor	ALL	031-01117-000
O	2	UNIT WITH REMOTE COOLER Valve, Regulator, Hot Gas	ALL	025-29944-000
P	2	Suppressor	ALL	031-01117-000
FLOW CONTROL SWITCH				
Q	1	Switch, Flow	ALL	024-26116-000
REMOTE CONTROL CENTER				
R	1	Control, Micro Board	ALL	031-01196-000
WALL-MOUNTED TRANSFORMER ⁵				
S	1	Transformer, Primary Voltage 115V	-	025-29917-001
MULTIPLE UNIT SEQUENCING KIT				
T	1	Sensor, Temperature	ALL	025-28935-000
U	1	Resistor, 180 Ohm Fixed	ALL	025-29900-000
BAS INTERFACE				
V	1	Control, Remote Reset	ALL	031-00814-000

See Notes on page 15.

ITEM NO.	UNIT MODEL						
	YCAJ66HF6	YCAJ76HF6	YCAJ77KF6	YCAJ87KF6	YCAJ88NH8	YCAJ98NH8	YCAJ99NH8
REMOTE COOLER ²							
A	025-25944	025-25944	025-25944	025-25944	025-25944	025-28976	025-28976
B	026-21055	026-21055	026-21055	026-16960	026-16960	026-16960	026-16960
	026-21055	026-21055	026-21055	026-21055	026-16960	026-16960	026-16960
C	026-18328	026-18328	026-18328	026-18328	026-18328	026-18328	026-18328
	4	4	4	5	6	6	6
D	025-28376	025-28376	025-28376	025-28375	025-28375	025-28375	025-28375
	025-28376	025-28376	025-28376	025-28376	025-28375	025-28375	025-28375
POWER DISCONNECT SWITCH (PDS)							
E	024-25241	024-25241	024-25241	024-25241	N.A.	-	-
	024-25562	024-25562	024-25241	024-25241	024-25241	-	-
	024-25564	024-25564	024-25564	024-25563	024-25563	024-25563	024-25563
	024-25564	024-25564	024-25564	024-25564	024-25564	024-25563	024-25563
CHICAGO CODE							
F	022-08863	022-08863	022-08863	022-08863	022-08863	022-08882	022-08882

NOTES:

- * One required per compressor
- Not Applicable

N.A. Not Available

1. Parts listed on pages 14 and 15 are for single replacement parts contained in the Option Kits. Part Numbers provided **DO NOT** reflect part numbers for complete Option Kits. See the Installation Operation Manual, Form 150.65-NM2 for complete Option Kit Part Numbers.
2. All other parts for this option are the same as standard, including cooler, controls, and unit components.
3. This option also requires Relay Board Kit, Item I, and Discharge Pressure Readout Kit, Items J and K.
4. Loadminder Option also requires Relay Board Kit, Item I.
5. Used with Remote Control Center (If Specified).



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