



**PACKAGED LIQUID CHILLERS
AIR-COOLED - RECIPROCATING HERMETIC**

RENEWAL PARTS

Supersedes: Nothing

FORM 150.44-RP5 (196)

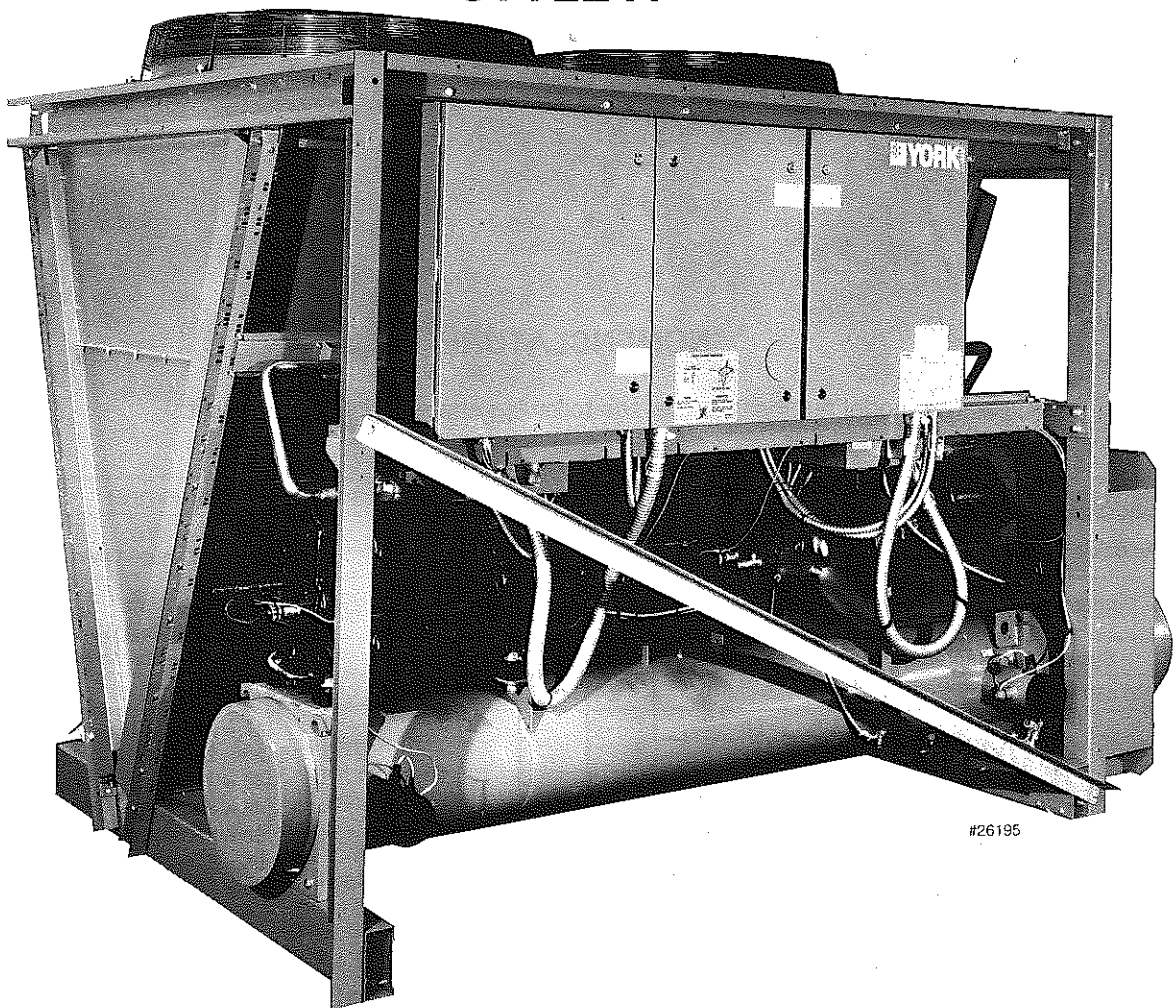
60 HZ MODELS

**YEAZ33BP3, YEAZ44BP3, YEAZ74BQ3,
YEAZ77CQ3, YEAZ88DQ3**

50 HZ MODELS

**YEAZ33AP2, YEAZ44AP2, YEAZ74BP2,
YEAZ77CQ2, YEAZ88DQ2**

STYLE A



#26195

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) has (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.

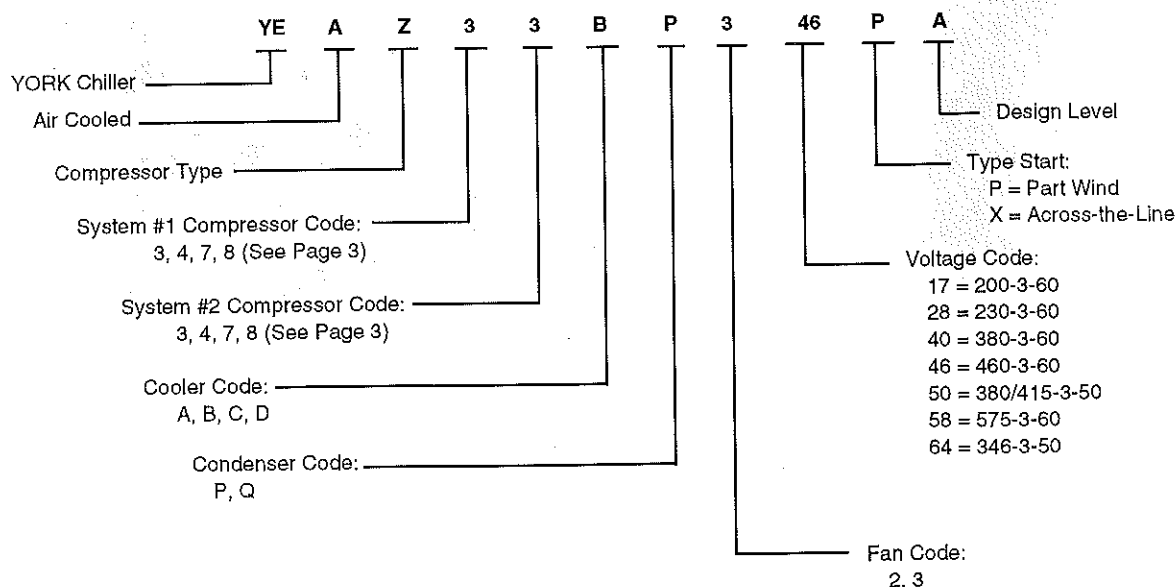
Be careful not to contact high voltage connections when installing or operating this equipment.

LOW VOLTAGE

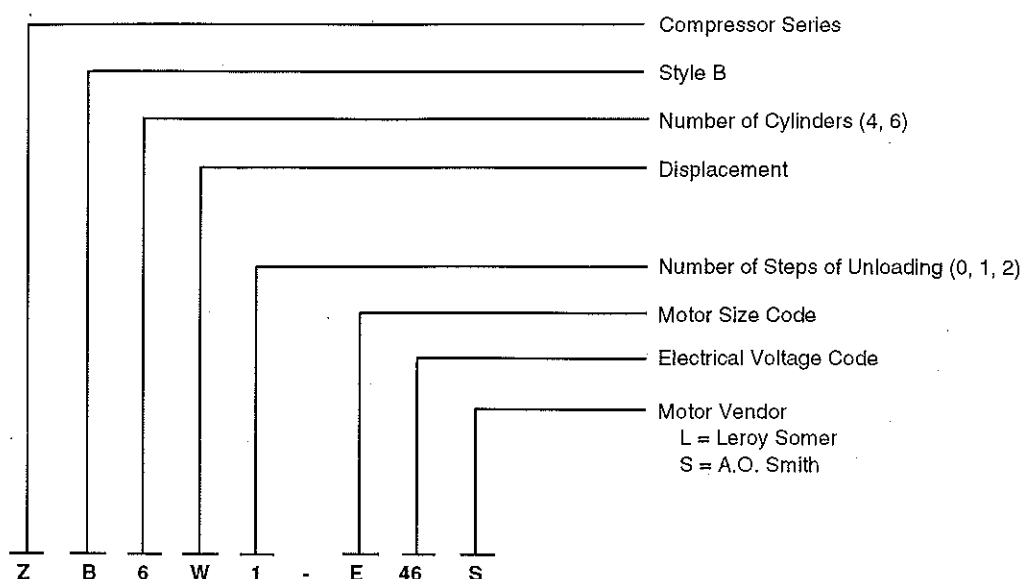
DO NOT be misled by the term "low voltage".
Voltages as low as 50 volts may cause death.

NOMENCLATURE

The model number denotes the following characteristics of the unit:



COMPRESSOR NOMENCLATURE



COMPRESSOR MODEL NUMBERS

60 HZ	UNIT MODEL	YEAZ33BP3	YEAZ44BP3	YEAZ74BQ3	YEAZ77CQ3	YEAZ88DQ3
COMPRESSOR MODEL	SYSTEM NO. 1	ZB4K1-B	ZB4M1-C	ZB6S1-D	ZB6S1-D	ZB6W1-E
	SYSTEM NO. 2	ZB4K1-B	ZB4M1-C	ZB4M1-C	ZB6S1-D	ZB6W1-E
50 HZ	UNIT MODEL	YEAZ33AP2	YEAZ44AP2	YEAZ74BP2	YEAZ77CQ2	YEAZ88DQ2
COMPRESSOR MODEL	SYSTEM NO. 1	ZB4K1-B	ZB4M1-C	ZB6S1-D	ZB6S1-D	ZB6W1-E
	SYSTEM NO. 2	ZB4K1-B	ZB4M1-C	ZB4M1-C	ZB6S1-D	ZB6W1-E

For replacement compressors and/or parts, refer to Form 180.45-RP2.

Remanufactured compressors are available from the Wheeling, Illinois manufacturing facility.

Contact the local YORK Applied Systems Office.

MAJOR UNIT COMPONENTS

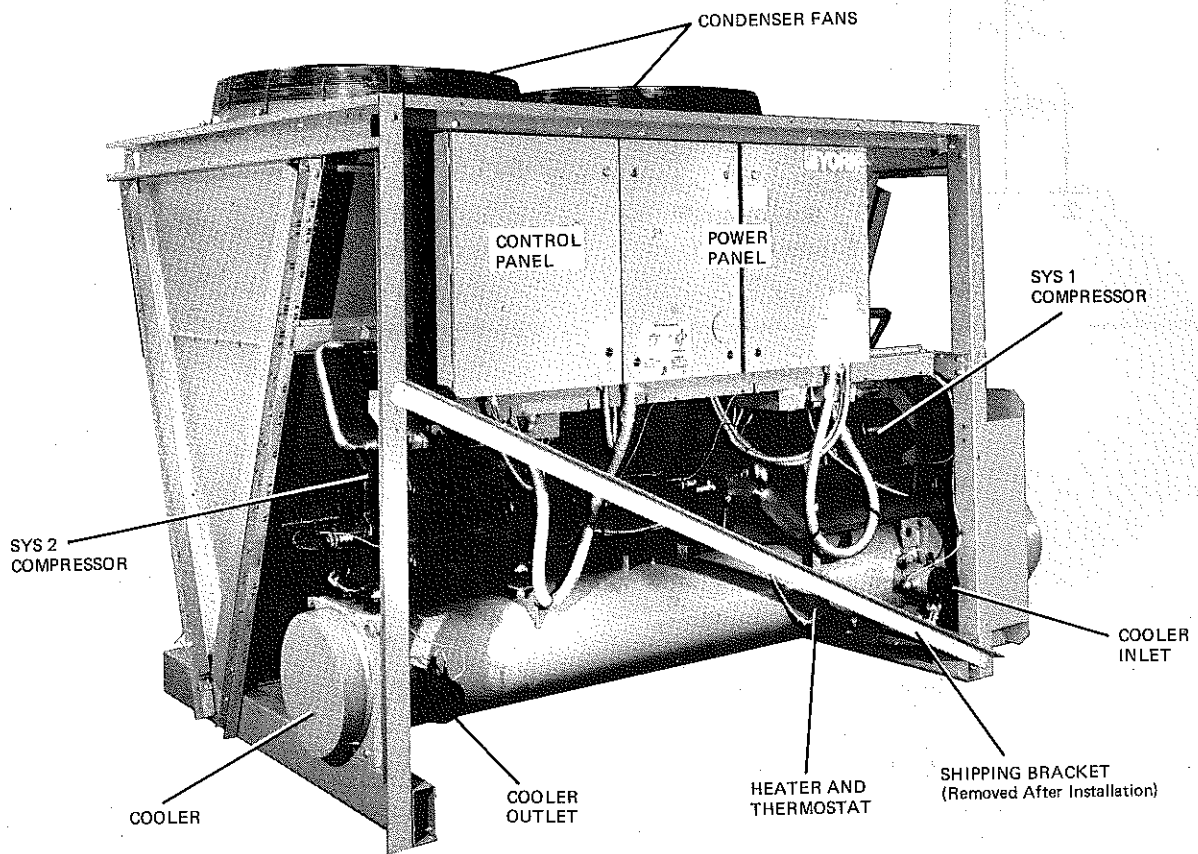


FIG. 1 - MAJOR UNIT COMPONENTS

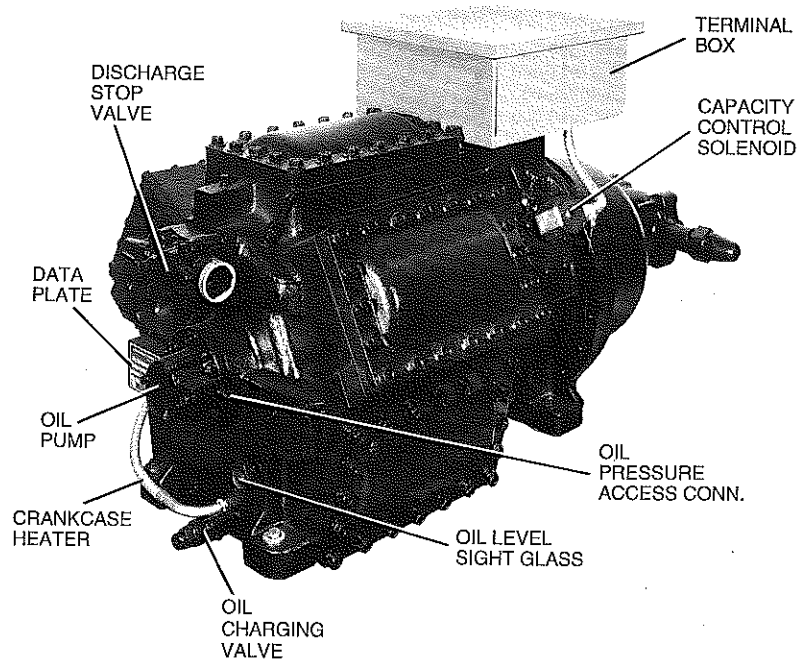
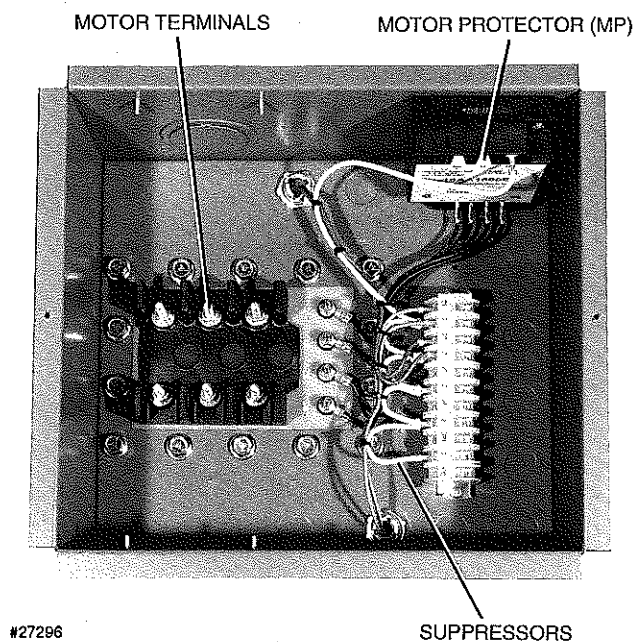
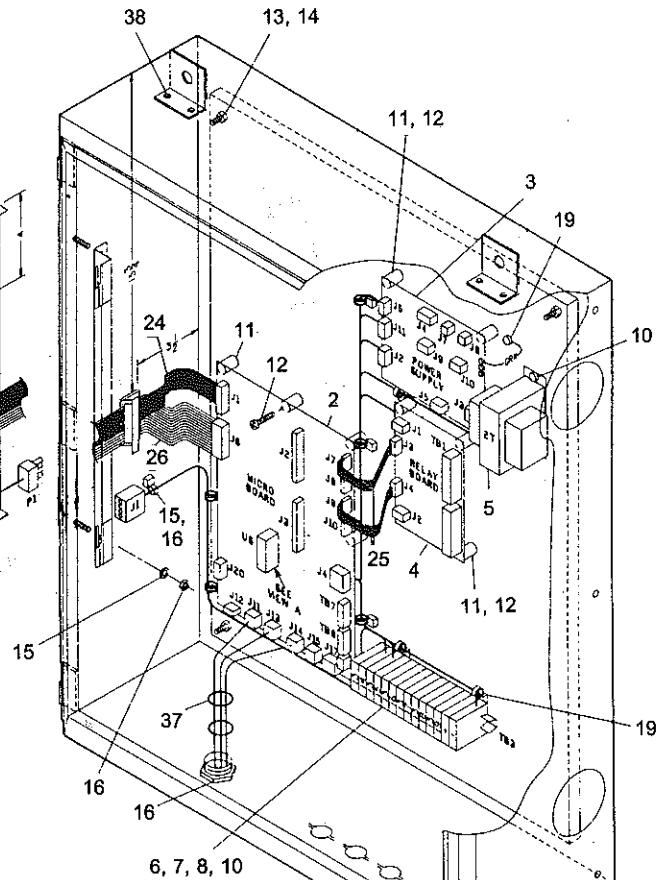
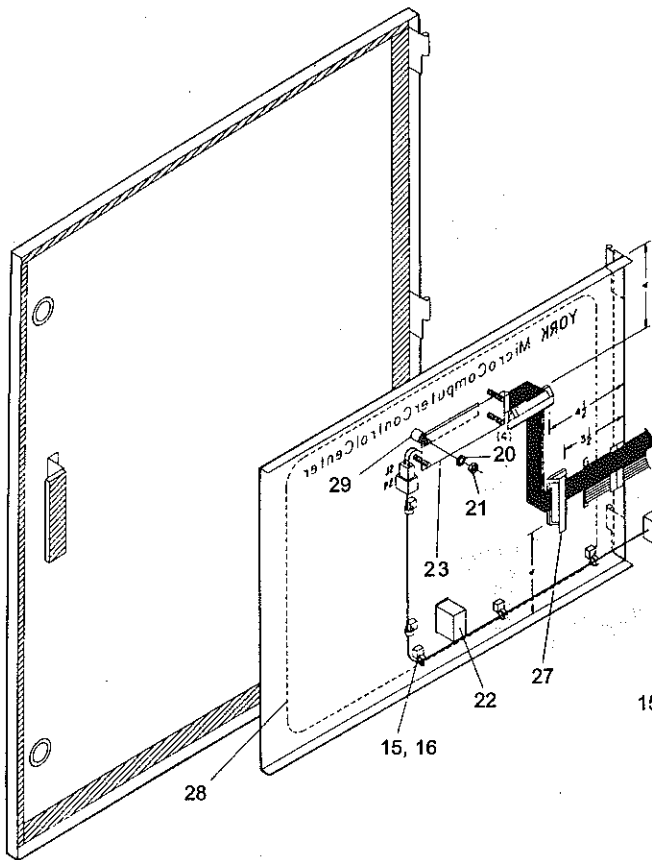


FIG. 2 - POWER DISCONNECT SWITCH (OPTION)

CONTROL PANEL

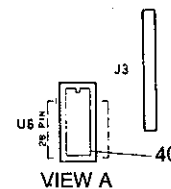
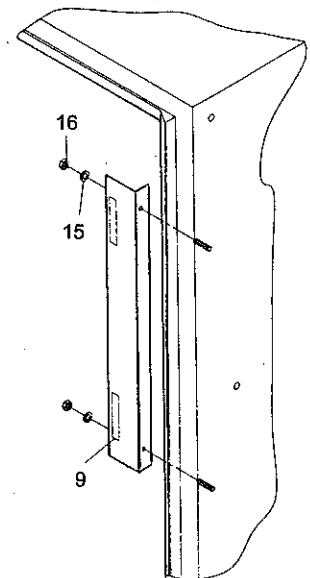


ITEM	QTY/UNIT	DESCRIPTION	PART NO.
^s 2	1	Control, Micro Board	031-01095-001
^s 3	1	Control, Power Supply	031-01094-000
^s 4	1	Control, Relay Board	031-01093-000
5	1	Transformer, Control	025-27911-000
6	14	Block, Terminal	025-20945-000
7	1	End, Terminal Block	025-20946-000
8	1	Strip, Marker (14 Pole)	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 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 ²	371-01226-231
31	1	Harness, Sensor - Oil #1 ²	371-01226-233
32	1	Harness, Sensor - Suct. #2 ²	371-01226-232
33	1	Harness, Sensor - Oil #2 ²	031-01226-234
34	1	Harness, Sensor - LWT ²	371-01226-241
35	1	Harness, Sensor - EWT ²	371-01226-242
36	1	Harness, Sensor - OAT ²	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
^s 40	1	EPROM	031-01096-001
41	1	Harness, Hinged Panel	571-01226-212
42	3	Suppressor for Options ³	031-00808-000

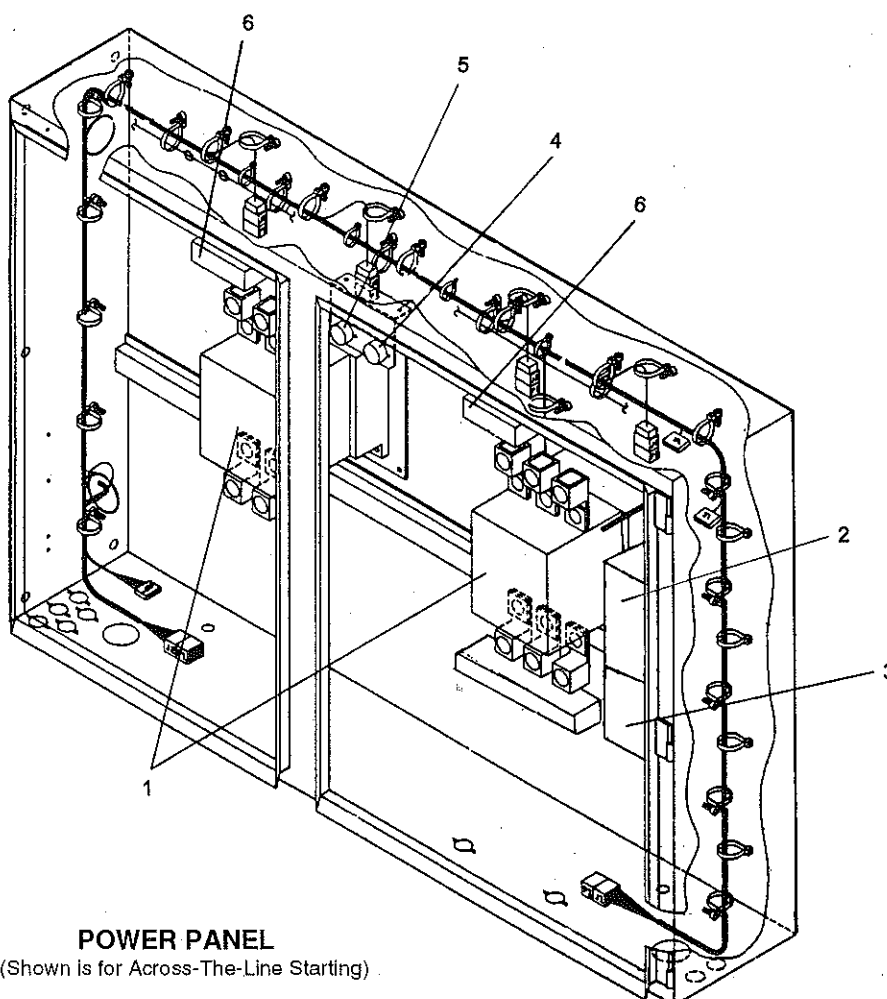
NOTES:

^s Recommended Stock Spare Parts

- Not Shown
- Not Shown. Sensor Harness without Sensor.
- Not shown, shipped loose for field use to place across the coil of any relay or contactor connected to the Control Panel or its 115VAC Power Supply including the application of:
 - Alarm Circuit Relays
 - Pump Starter (Contactor or Pilot Relay)
 - Flow Switch Inputs



VIEW A



POWER PANEL
(Shown is for Across-The-Line Starting)

POWER PANEL CONTROL COMPONENTS

ITEM NO.	QTY PER UNIT		VOLT. CODE	PART NO. ALL MODELS
^s 1	See page 8 2	CONTACTORS Contactor (w/Suppressor), Compressor Contactor (w/Suppressor), Fan	ALL	See page 8
^s 2			-17	024-25521-000
			-28	024-25521-000
			-40	024-25522-000
			-46	024-25522-000
			-50	024-25521-000
			-58	024-25522-000
			-64	024-25521-000
^s 3	2	OVERLOAD, FAN 6.3-10 FLA 10-16 FLA		024-25519-000 024-25518-000
^s 4	1	FUSE Electronic Power Supply Circuit (5 amp), 2FU	ALL	025-27922-000
^s 5	1	Control Circuit (20 amp), 1FU	ALL	025-28967-000
6	2	Transformer, Current	ALL	025-27408-000

^s Recommended Stock Spare Parts

S COMPRESSOR MOTOR CONTACTORS

VOLTAGE CODE	TYPE START	SYSTEM	60 HZ UNIT MODEL				
			YEAZ33BP3	YEAZ44BP3	YEAZ74BQ3	YEAZ77CQ3	YEAZ88DQ3
-17	A	1	-	-	-	-	-
		2	-	-	-	-	-
	P	1	024-25550-000	024-25550-000	024-25550-000	024-25550-000	024-25549-000
		2	024-25550-000	024-25550-000	024-25550-000	024-25550-000	024-25549-000
-28	A	1	-	-	-	-	-
		2	-	-	-	-	-
	P	1	024-25550-000	024-25550-000	024-25550-000	024-25550-000	024-25549-000
		2	024-25550-000	024-25550-000	024-25550-000	024-25550-000	024-25549-000
-40	A	1	024-25551-000	024-25551-000	024-25550-000	024-25550-000	024-25549-000
		2	024-25551-000	024-25551-000	024-25550-000	024-25550-000	024-25549-000
	P	1	024-25550-000	024-25550-000	024-25550-000	024-25550-000	024-25550-000
		2	024-25550-000	024-25550-000	024-25550-000	024-25550-000	024-25550-000
-46	A	1	024-25551-000	024-25551-000	024-25551-000	024-25551-000	024-25549-000
		2	024-25551-000	024-25551-000	024-25551-000	024-25551-000	024-25549-000
	P	1	024-25550-000	024-25550-000	024-25550-000	024-25550-000	024-25550-000
		2	024-25550-000	024-25550-000	024-25550-000	024-25550-000	024-25550-000
-58	A	1	024-25551-000	024-25551-000	024-25551-000	024-25551-000	024-25550-000
		2	024-25551-000	024-25551-000	024-25551-000	024-25551-000	024-25550-000
	P	1	024-25550-000	024-25550-000	024-25550-000	024-25550-000	024-25550-000
		2	024-25550-000	024-25550-000	024-25550-000	024-25550-000	024-25550-000

VOLTAGE CODE	TYPE START	SYSTEM	50 HZ UNIT MODEL				
			YEAZ33AP2	YEAZ44AP2	YEAZ74BP2	YEAZ77CQ2	YEAZ88DQ2
-50	A	1	024-25551-000	024-25551-000	024-25551-000	024-25551-000	024-25551-000
		2	024-25551-000	024-25551-000	024-25551-000	024-25551-000	024-25551-000
	P	1	024-25550-000	024-25550-000	024-25550-000	024-25550-000	024-25550-000
		2	024-25550-000	024-25550-000	024-25550-000	024-25550-000	024-25550-000
-64	A	1	024-25551-000	024-25551-000	024-25551-000	024-25551-000	024-25549-000
		2	024-25551-000	024-25551-000	024-25551-000	024-25551-000	024-25549-000
	P	1	024-25550-000	024-25550-000	024-25550-000	024-25550-000	024-25550-000
		1	024-25550-000	024-25550-000	024-25550-000	024-25550-000	024-25550-000

NOTES:

* Recommended Stock Spare Parts

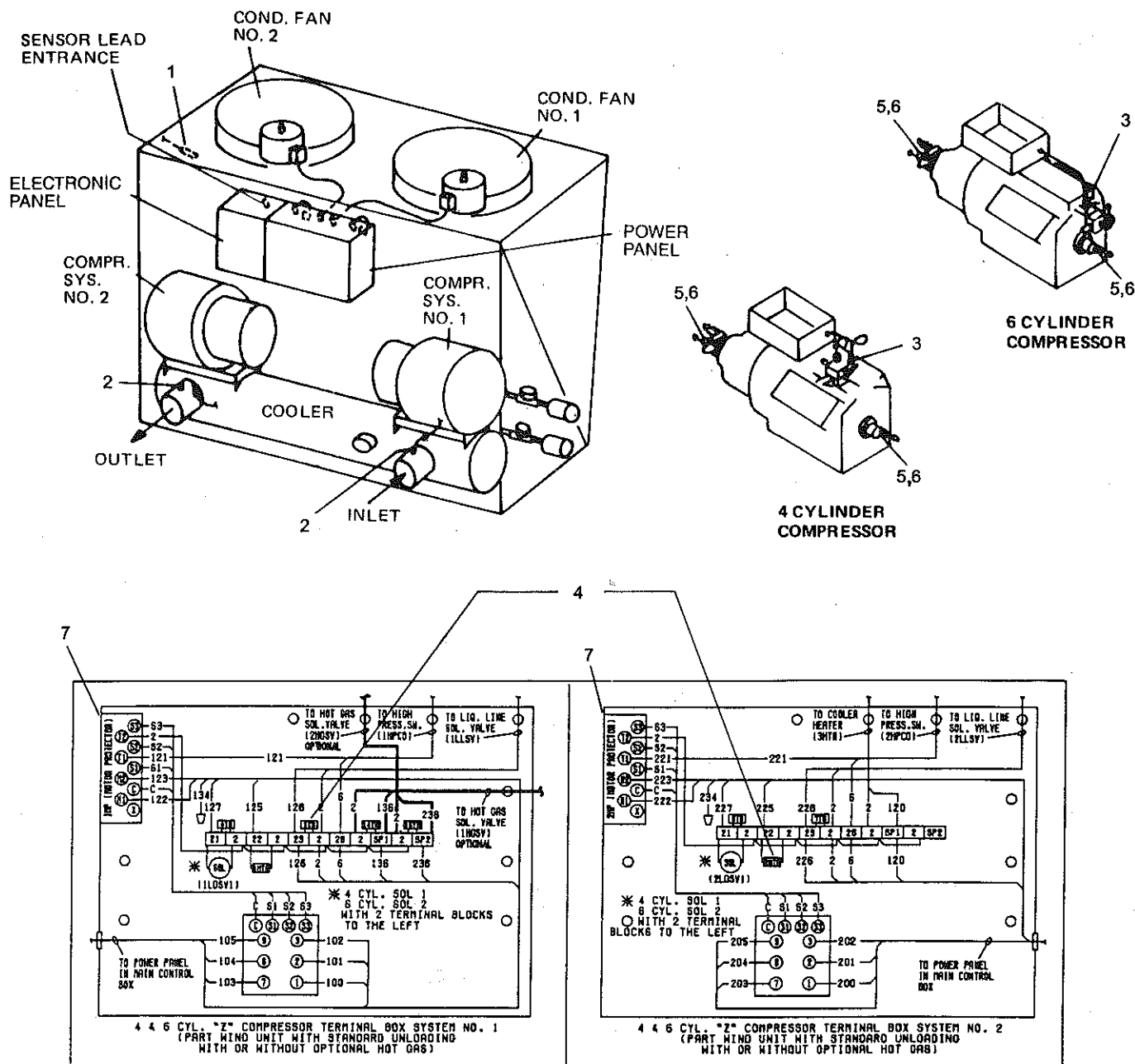
P = Part Winding

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

A = Across-the-Line

Across-the-Line (Start) compressors require one (1) contactor per compressor (system).

Contactors include suppressors.



SYSTEM CONTROL COMPONENTS

ITEM NO.	QTY PER UNIT	DESCRIPTION	VOLT. CODE	PART NO. ALL MODELS
^s 1	1	SENSORS		
^s 2	2	Outside Air (OAT)	ALL	025-28663-001
		Water Temperature (LWT,RWT)	ALL	025-29964-000
^s 3	2	High Pressure Cutout	ALL	025-28985-002
^s 4	4	Suppressor, Compressor Unloading Solenoids and Liquid Line Solenoids		031-01117-000
^s 5	4	Transducer (Oil & Suction Pressure)	ALL	025-29583-000
6	4	Brass Adaptor (Use with Item 5)	ALL	023-16272-000
7	2	Module, Motor Protector	ALL	025-27522-000
8	1	Heat Conductive Compound (Use with Item 2)	ALL	013-00898-000

^s Recommended Stock Spare Parts

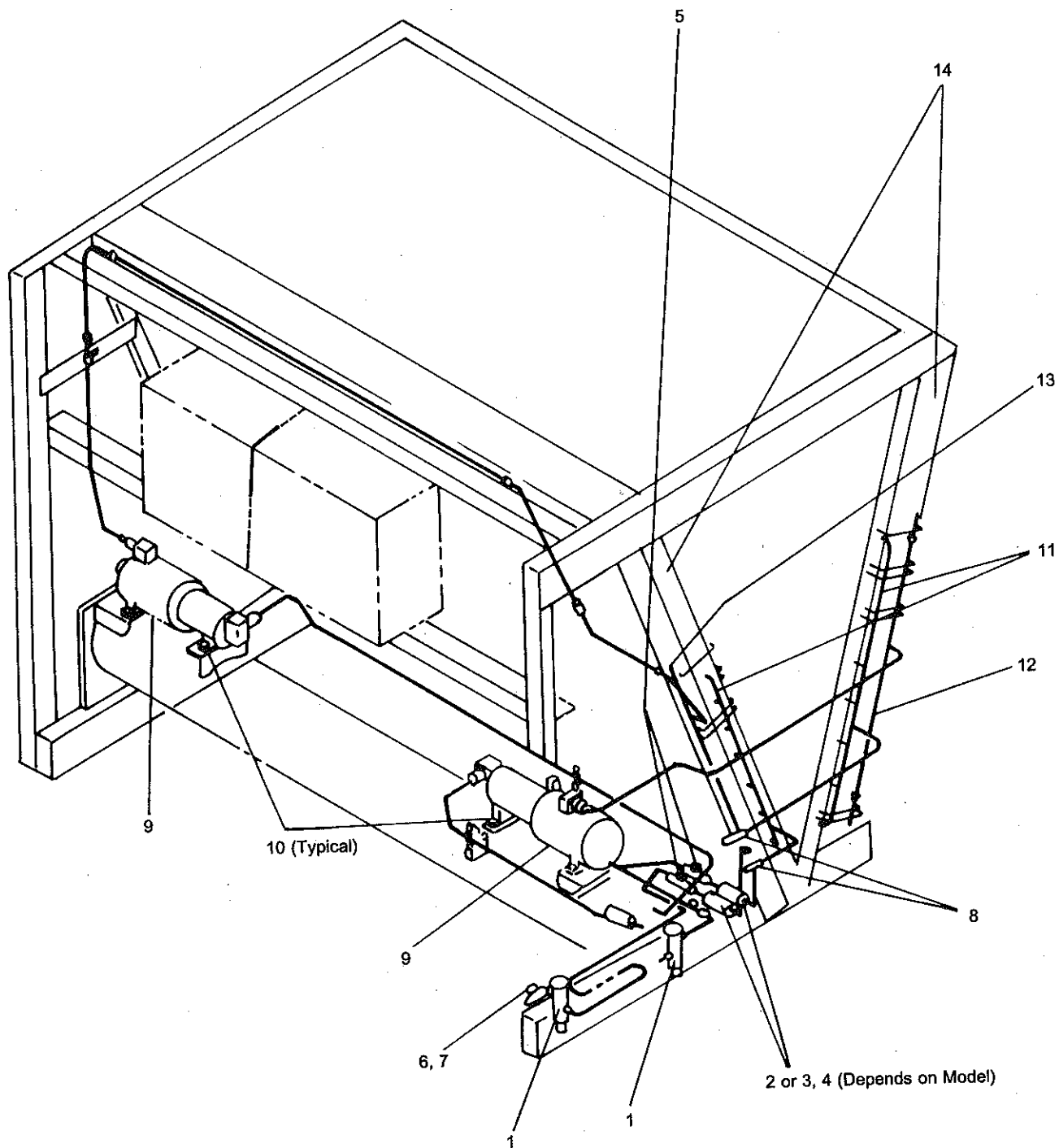


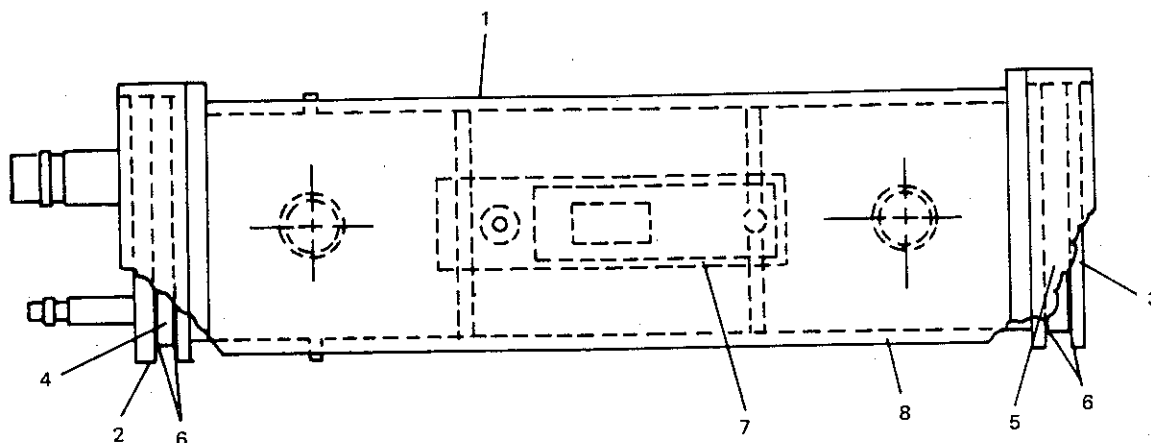
FIG. 3 - REFRIGERANT SYSTEM COMPONENTS

REFRIGERANT SYSTEM COMPONENTS

(See Fig. 3)

ITEM NO.	QTY PER UNIT	DESCRIPTION	HZ	UNIT MODEL					
			60	YEAZ33BP3	YEAZ44BP3	-	YEAZ74BQ3	YEAZ77CQ3	YEAZ88DQ3
			50	YEAZ33AP2	YEAZ44AP2	YEAZ74BP2	-	YEAZ77CQ2	YEAZ88DQ2
^s 1	2	Valve, Thermal Expansion		025-21954	025-21954	025-21954	025-21954	025-23211	025-23211
^s 2	2	Dehydrator, Body (Permanent Core)		026-20145	026-20145	-	-	-	-
3	2	Dehydrator, Body (Replaceable Core)		-	-	026-30598	026-30598	026-30598	026-30598
^s 4	4	Dehydrator, Core (Use with Item 3)		-	-	026-18328	026-18328	026-18328	026-18328
5	2	Valve, Liquid Solenoid		025-17513	025-17513	025-17513	025-17513	025-17513	025-17513
^s 6	2	Moisture Indicator, Body		026-32397	026-32397	026-32397	026-32397	026-32397	026-32397
7	2	Moisture Indicator, Cap Assembly		026-32800	026-32800	026-32800	026-32800	026-32800	026-32800
8	2	Valve, Liquid Stop		025-10510	025-10510	025-10510	025-10510	025-10510	025-10510
9	2	Compressor		Note 2					
10	16	Pad, Isolator		075-00820	075-00820	075-00820	075-00820	075-00820	075-00820
ALUMINUM FIN COILS - STANDARD									
11	2	Header, Liquid		366-94438	366-94438	366-93928	366-93928	366-93928	366-93928
12	1	Header, Discharge, System 1		375-05376	375-05376	375-05372	375-05372	375-05372	375-05372
13	1	Header, Discharge, System 2		375-05378	375-05378	375-05372	375-05372	375-05372	375-05372
14	Note 1	Coil, Condenser		026-31589	026-31589	026-31589	026-31589	026-31589	026-31589
HERESITE-COATED COILS - OPTION									
11	2	Header, Liquid		375-02537	375-02537	375-02541	375-02541	375-02541	375-02541
12	1	Header, Discharge, System 1		375-05691	375-05691	375-05692	375-05692	375-05692	375-05692
13	1	Header, Discharge, System 2		375-05690	375-05690	375-05692	375-05692	375-05692	375-05692
14	Note 1	Coil, Condenser		326-31641	326-31641	326-31641	326-31641	326-31641	326-31641
COPPER FIN COILS - OPTION									
11	2	Header, Liquid		366-94438	366-94438	366-93928	366-93928	366-93928	366-93928
12	1	Header, Discharge, System 1		375-05376	375-05376	375-05372	375-05372	375-05372	375-05372
13	1	Header, Discharge, System 2		375-05378	375-05378	375-05372	375-05372	375-05372	375-05372
14	Note 1	Coil, Condenser		026-31647	036-31647	036-31647	036-31647	036-31647	036-31647
BLACK FIN COILS - OPTION									
11	2	Header, Liquid		366-94438	366-94438	366-93928	366-93928	366-93928	366-93928
12	1	Header, Discharge, System 1		375-05376	375-05376	375-05372	375-05372	375-05372	375-05372
13	1	Header, Discharge, System 2		375-05378	375-05378	375-05372	375-05372	375-05372	375-05372
14	Note 1	Coil, Condenser		326-33879	326-33879	326-33879	326-33879	326-33879	326-33879
NOTES									
(1)	Number of Condenser Coils per Unit			4	4	4	6	6	6
(2)	See Page 3								

^s Recommended Stock Spare Parts



COOLER COMPONENTS

ITEM NO.	QTY PER UNIT	DESCRIPTION	60 HZ UNIT MODEL				
			YEAZ33BP3	YEAZ44BP3	YEAZ74BQ3	YEAZ77CQ3	YEAZ88DQ3
1	1	Cooler, Less Insulation & Heater (Includes Items 2 thru 6)	375-17503	375-17503	375-17503	375-17505	375-17507
2	1	Head, Connection End	375-17525	375-17525	375-17525	375-17553	375-17068
3	1	Head, Back End	375-17523	375-17523	375-17523	375-17554	375-17065
4	1	Pass Baffle, Connection End	075-17031	075-17031	075-17031	075-17544	375-17072
5	1	Pass Baffle, Back End	375-18173	375-18173	375-18173	375-18174	375-18175
^s 6 ¹	4	Gasket, Pass Baffle and Head	075-17033	075-17033	075-17033	075-17546	075-17071
^s 7	1	Heater	025-22691	025-22691	025-22691	025-22691	025-22692
8	3	Insulation, 3/4" x 49" x 65"	010-04198	010-04198	010-04198	010-04198	010-04198

ITEM NO.	QTY PER UNIT	DESCRIPTION	50 HZ UNIT MODEL				
			YEAZ33AP2	YEAZ44AP2	YEAZ74BP2	YEAZ77CQ2	YEAZ88DQ2
1	1	Cooler, Less Insulation & Heater (Includes Items 2 thru 6)	375-17501	375-17501	375-17503	375-17505	375-17507
2	1	Head, Connection End	375-17525	375-17525	375-17525	375-17553	375-17068
3	1	Head, Back End	375-17523	375-17523	375-17523	375-17554	375-17065
4	1	Pass Baffle, Connection End	075-17031	075-17031	075-17031	075-17544	375-17072
5	1	Pass Baffle, Back End	375-18173	375-18173	375-18173	375-18174	375-18175
^s 6 ¹	4	Gasket, Pass Baffle and Head	075-17033	075-17033	075-17033	075-17546	075-17071
^s 7	1	Heater	025-22691	025-22691	025-22691	025-22691	025-22692
8	3	Insulation, 3/4" x 49" x 65"	010-04198	010-04198	010-04198	010-04198	010-04198

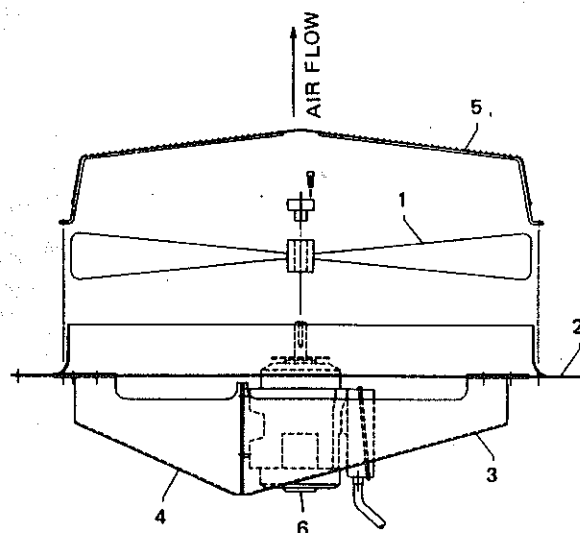
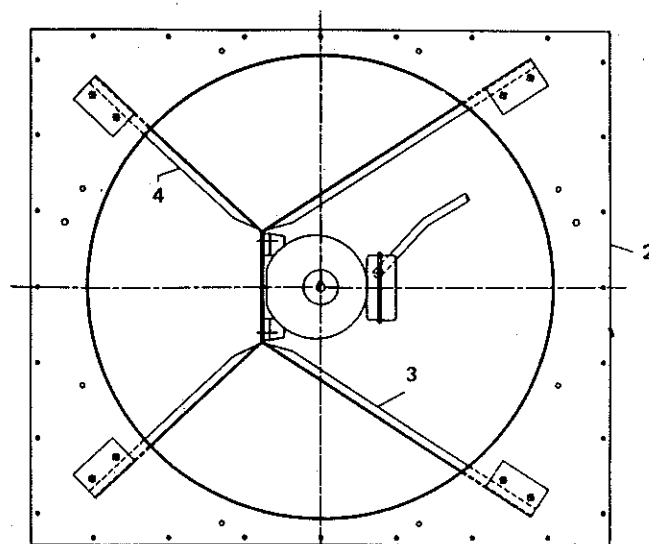
NOTES:

^s Recommended Stock Spare Parts

1. When replacing gasket, Item 6, use:

^s Sealer, Gasket, 013-02827

^s Primer, 013-01753



FAN COMPONENTS

ITEM NO.	DESCRIPTION	PART NUMBER
^s 1	Blade	026-30582-000
2	Orifice	326-30325-000
3	Support, Motor	075-00618-000
4	Support, Motor	075-00619-000
5	Guard	026-30594-000
^s 6	Motor:	
	VOLTAGE CODE	-17 024-25247-002
		-28 025-25247-002
		-40 024-25247-001
		-46 024-25247-001
		-50 024-24604-001
		-58 024-25252-000
		-64 024-24604-001

^s Recommended Stock Spare Parts

REPLACEMENT COMPONENTS FOR UNIT OPTIONS ¹

ITEM NO.	QTY PER UNIT	DESCRIPTION	VOLT. CODE	ALL MODELS
REMOTE COOLER (Note 2)				
A	2	Valve, Thermal Expansion	ALL	See Page 15
B	2	Dehydrator, Body (Permanent Core)	ALL	
C	2	Dehydrator, Body (Replaceable Core)	ALL	
D	4	Dehydrator Core (Use with Item C)	ALL	
ADDITIONAL STEPS OF UNLOADING (Note 3)				
E	Depends on unit	Suppressor. Unit Model Columns list quantity required in ADDITION to standard quantities (See page 9 for standard)	ALL	031-01117-000
POWER DISCONNECT SWITCH (PDS)				
F	1	Switch, Disconnect (See Fig. 2)	-17 -28 -40 -46 -50 -58 -64	See Page 15
CONTROL TRANSFORMER (1T)				
G	1	Transformer	-17 -28 -40 -46 -50 -58 -64	025-29627-001 025-29627-002 025-29627-003 025-29627-002 025-29627-003 25-29627-004 N/A
H	2	Fuse, Transformer	-17 -28 -40 -46 -50 -58 -64	025-27699-000 025-27509-015 025-28967-000 025-25584-000 025-28967-000 025-21145-000 N/A
PUMP CONTROL KIT/RELAY BOARD KIT				
I	1	Relay Control Board	ALL	031-01093-000
DISCHARGE PRESSURE READOUT KIT				
J	2*	Transducer, Discharge Pressure	ALL	025-29139-001
K	2*	Adaptor, Transducer (Use with Item J)	ALL	023-16272-000
LOW AMBIENT KIT (Note 4)				
L	1	Fan Contactor with Suppressor	ALL	024-25547-000
LOADMINDER (HOT GAS BYPASS) (Note 5)				
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 (Note 6)				
S	1	Transformer, Primary Voltage 115V (60 HZ) 230V (50 HZ)	- -	025-29917-001 025-29917-002
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
CHICAGO CODE				
W	2	Valve, Relief	ALL	022-08881-000

REPLACEMENT COMPONENTS FOR UNIT OPTIONS ¹

ITEM NO.	HZ	UNIT MODEL						
	60	YEAZ33BP3	YEAZ44BP3		YEAZ74BQ3		YEAZ77CQ3	YEAZ88DQ3
	50	YEAZ33AP2		YEAZ44AP2		YEAZ74BP2	YEAZ77CQ2	YEAZ88DQ2
REMOTE COOLER (Note 2)								
A		025-21954-000	025-23211-000	025-21954-000	025-23211-000	025-21954-000	025-23211-000	025-23211-000
B		026-20145-000	026-20145-00	026-20145-000	026-20145-000	026-20145-000	-	-
C		-	-	-	-	-	026-30598-000	026-30598-000
D		-	-	-	-	-	026-18328-000	026-18328-000
ADDITIONAL STEPS OF UNLOADING (Note 3)								
E		N/A	N/A	N/A	1	1	2	2
POWER DISCONNECT SWITCH (PDS)								
F		024-25564-000	024-25564-000	024-25564-000	024-25564-000	024-25564-000	024-25563-000	024-25563-000
		024-25564-000	024-25564-000	024-25564-000	024-25564-000	024-25564-000	024-25564-000	024-25563-000
		024-25565-000	024-25565-000	024-25565-000	024-25565-000	024-25565-000	024-25564-000	024-25564-000
		024-25565-000	024-25565-000	024-25565-000	024-25565-000	024-25565-000	024-25565-000	024-25564-000
		024-25565-000	024-25565-000	024-25565-000	024-25565-000	024-25565-000	024-25565-000	024-25564-000
		024-25565-000	024-25565-000	024-25565-000	024-25565-000	024-25565-000	024-25565-000	024-25565-000
		024-25565-000	024-25565-000	024-25565-000	024-25565-000	024-25565-000	024-25565-000	024-25564-000

NOTES (For Pages 14 - 15):

* One required per compressor

- Not Applicable

N/A Not Available

- 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 150.44-NM5 for complete Option Kit Part Numbers.
- All other parts for this option are the same as standard, including cooler, controls, and unit components.
- This option also requires Relay Board Kit, Item I.
- This option also requires Relay Board Kit, Item I, and Discharge Pressure Readout Kit, Items J and K.
- Loadminder Option also requires Relay Board Kit, Item I.
- Used with Remote Control Center (If Specified).



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