



PACKAGED LIQUID CHILLERS
AIR COOLED — RECIPROCATING HERMETIC

RENEWAL PARTS

Supersedes: Nothing

990

FORM 150.60-RP1

60 HZ MODELS

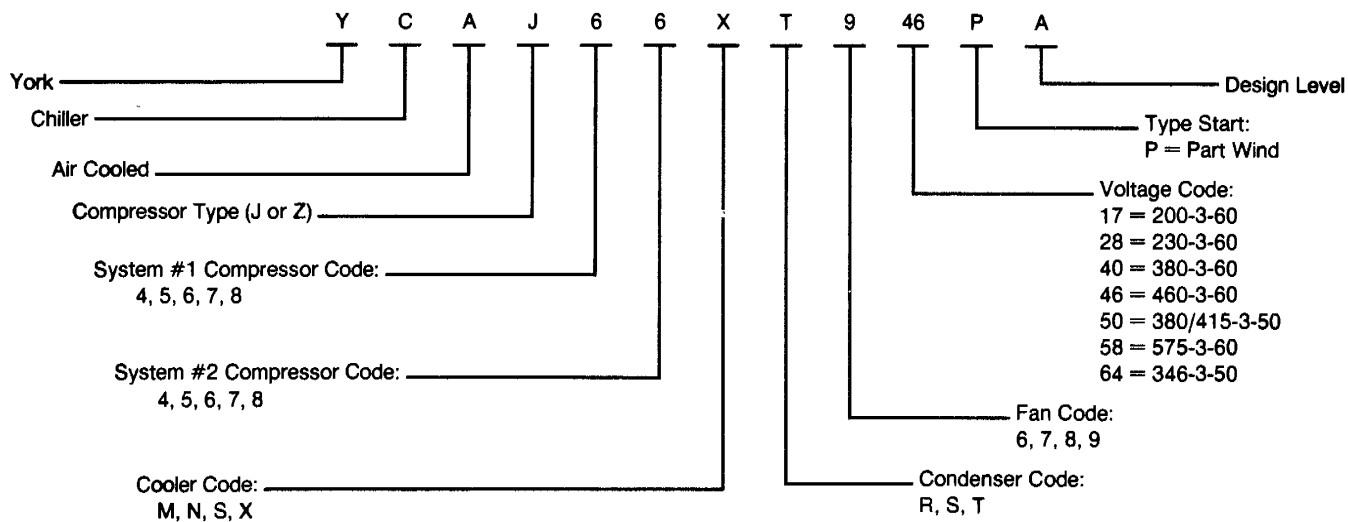
YCAZ88MR6, YCAJ44MR6, YCAJ44ST6, YCAJ54NS6, YCAJ55ST8,
YCAJ65ST8, YCAJ66XT8

50 HERTZ MODELS

YCAJ44MR7, YCAJ55MR7, YCAJ55ST7, YCAJ65NS7 YCAJ66ST9,
YCAJ76ST9, YCAJ77XT9

STYLE A

UNIT NOMENCLATURE



COMPRESSOR MODEL NUMBERS

UNIT MODEL	60 HZ	YCAZ88MR6	YCAJ44MR6	YCAJ44ST6	YCAJ54NS6	YCAJ55ST8	YCAJ65ST8	YCAJ66XT8
COMPRESSOR MODEL	SYSTEM NO. 1	Z6W-E	JS43-M	JS43-M	JS44-P	JS44-P	JS63-Q	JS63-Q
	SYSTEM NO. 2	Z6W-E	JS43-M	JS43-M	JS43-M	JS44-P	JS44-P	JS63-Q

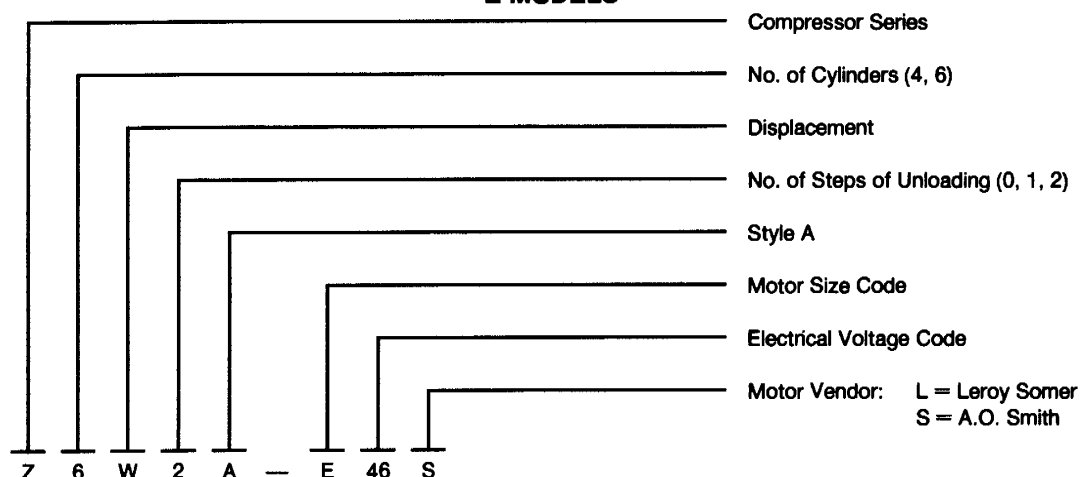
UNIT MODEL	50 HZ	YCAJ44MR7	YCAJ55MR7	YCAJ55ST7	YCAJ65NS7	YCAJ66ST9	YCAJ76ST9	YCAJ77XT9
COMPRESSOR MODEL	SYSTEM NO. 1	JS43-M	JS44-P	JS44-P	JS63-Q	JS63-Q	JS64-S	JS64-S
	SYSTEM NO. 2	JS43-M	JS44-P	JS44-P	JS44-P	JS63-Q	JS63-Q	JS64-S

For replacement compressors and/or compressor parts, refer to the following, as appropriate:

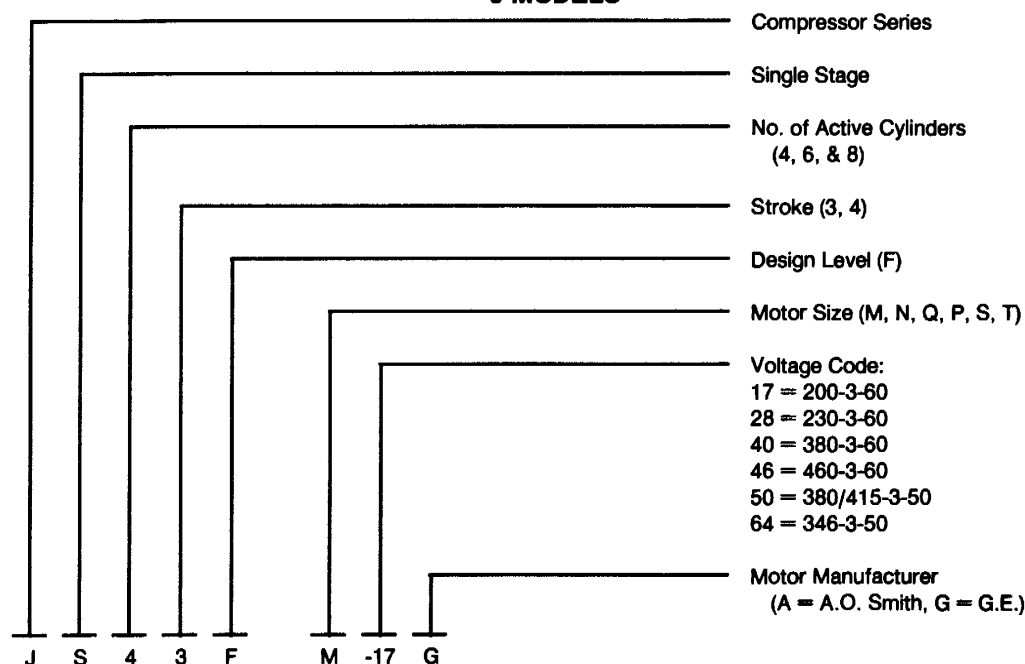
"J" Compressors — Form 180.23-RP3

"Z" Compressors — Form 180.45-RP1

COMPRESSOR NOMENCLATURE Z MODELS



J MODELS



Ⓢ COMPRESSOR MOTOR CONTACTORS

VOLTAGE CODE	TYPE START	SYSTEM	60 HZ UNIT MODEL						
			YCAZ88MR6	YCAJ44MR6	YCAJ44ST6	YCAJ54NS6	YCAJ55ST8	YCAJ65ST8	YCAJ66XT8
-17	P	1	024-24982-000	024-24988-001	024-24988-001	024-24988-002	024-24988-002	024-24988-002	024-24988-002
		2	024-24982-000	024-24988-001	024-24988-001	024-24988-002	024-24988-002	024-24988-002	024-24988-002
-28	P	1	024-24982-000	024-24982-000	024-24982-000	024-24988-002	024-24988-002	024-24988-002	024-24988-002
		2	024-24982-000	024-24982-000	024-24982-000	024-24988-002	024-24988-002	024-24988-002	024-24988-002
-40	P	1	024-24775-000	024-24982-000	024-24982-000	024-24982-000	024-24982-000	024-24988-001	024-24988-001
		2	024-24775-000	024-24982-000	024-24982-000	024-24982-000	024-24982-000	024-24988-001	024-24988-001
-46	P	1	024-24775-000	024-24775-000	024-24775-000	024-24982-000	024-24982-000	024-24988-001	024-24988-001
		2	024-24775-000	024-24775-000	024-24775-000	024-24982-000	024-24982-000	024-24988-001	024-24988-001
-58	P	1	024-24775-000	024-24775-000	024-24775-000	024-24775-000	024-24775-000	024-24982-000	024-24982-000
		2	024-24775-000	024-24775-000	024-24775-000	024-24775-000	024-24775-000	024-24982-000	024-24982-000

VOLTAGE CODE	TYPE START	SYSTEM	50 HZ UNIT MODEL						
			YCAJ44MR7	YCAJ55MR7	YCAJ55ST7	YCAJ65NS7	YCAJ66ST9	YCAJ76ST9	YCAJ77XT9
-50	P	1	024-24982-000	024-24982-000	024-24982-000	024-24988-001	024-24988-001	024-24988-001	024-24988-001
		2	024-24982-000	024-24982-000	024-24982-000	024-24988-001	024-24988-001	024-24988-001	024-24988-001
-64	P	1	024-24982-000	024-24982-000	024-24982-000	024-24988-001	024-24988-001	024-24988-001	024-24988-001
		2	024-24982-000	024-24982-000	024-24982-000	024-24988-001	024-24988-001	024-24988-001	024-24988-001

NOTES: Ⓢ = Recommended Stock Spare Parts

P = Part Winding

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

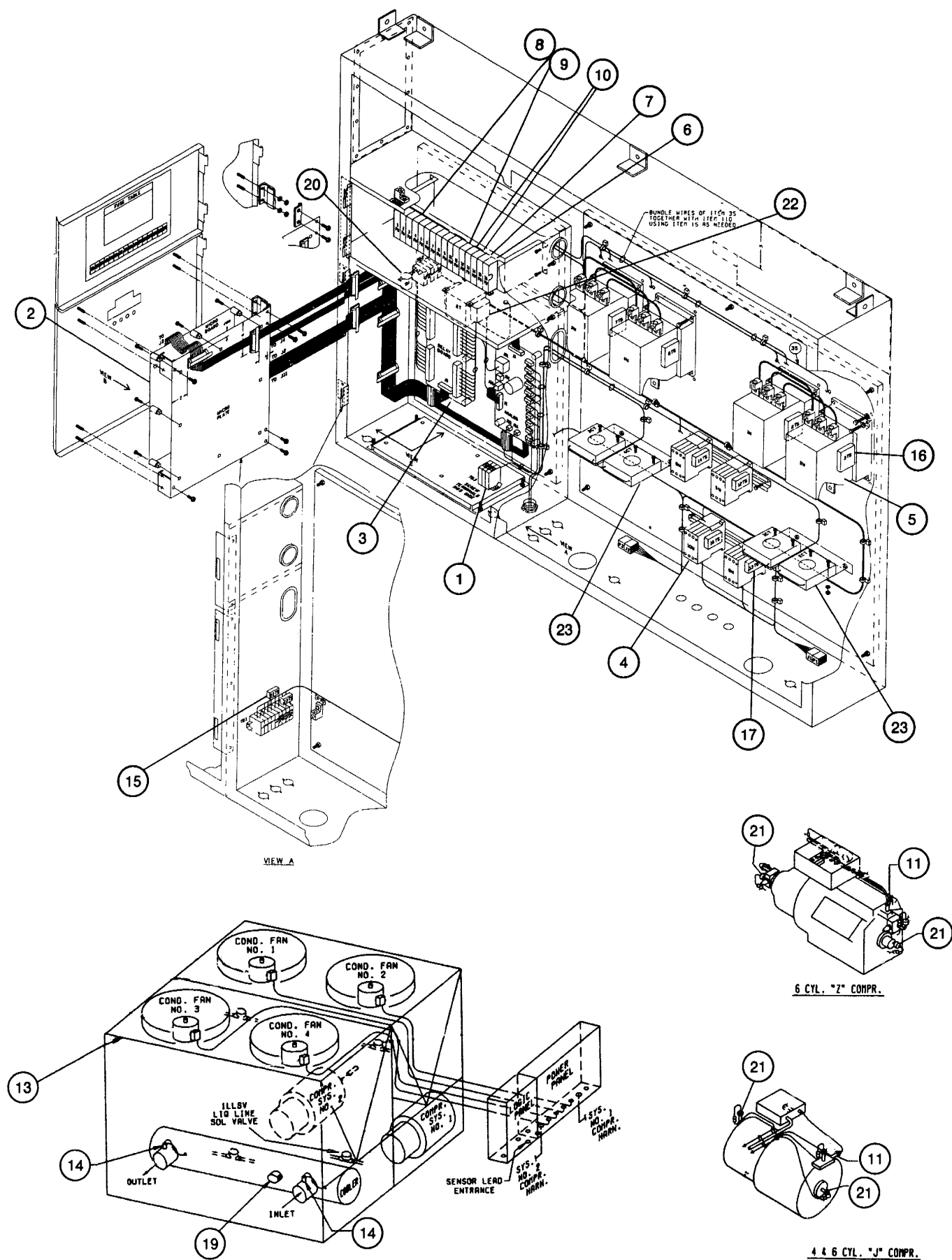
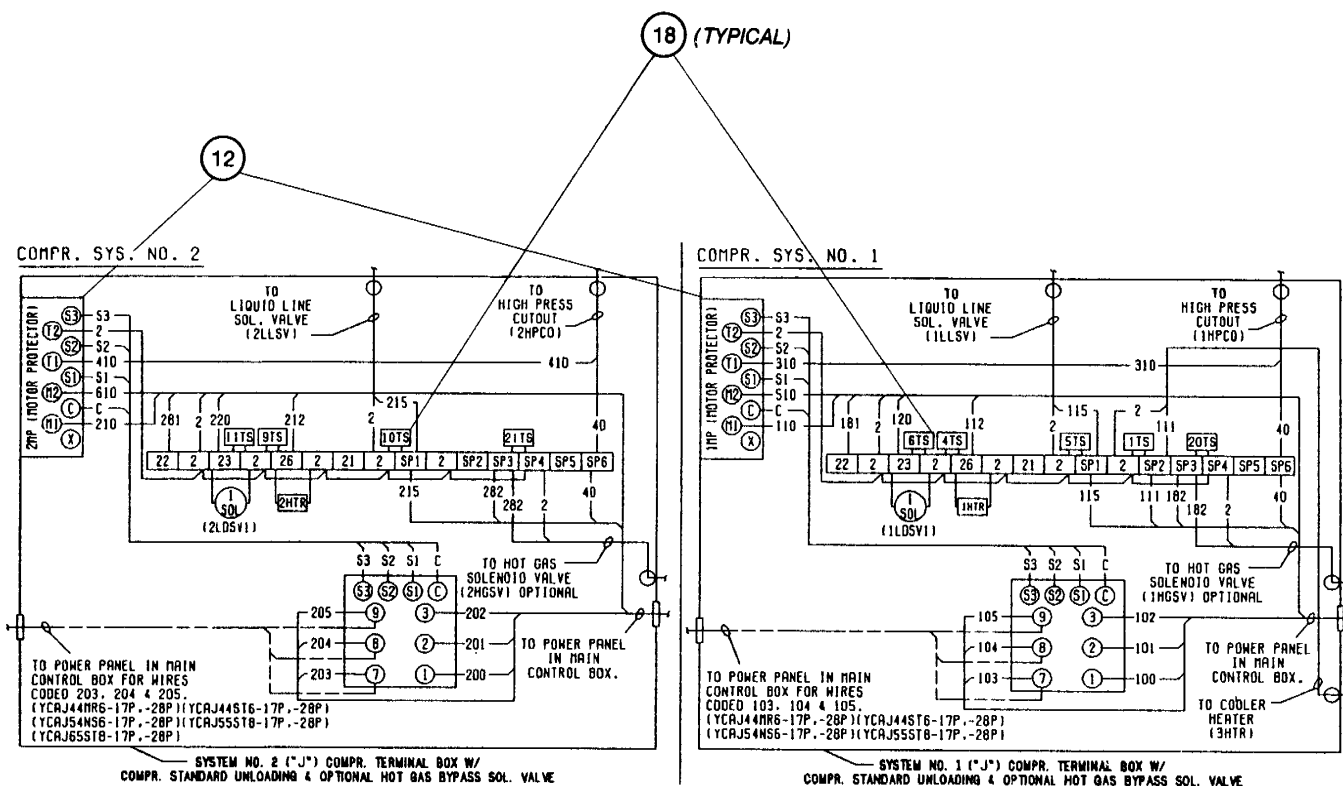


Figure 1 CONTROL COMPONENTS

CONTROL COMPONENTS (See Figure 1)

ITEM NO.	QUANT PER UNIT	DESCRIPTION	VOLTAGE CODE	ALL MODELS	HZ	UNIT MODEL						
						60	YCAZ88MR6	YCAJ44MR6	YCAJ44ST6	YCAJ54NS6	YCAJ55ST6	YCAJ65ST6
					50	YCAJ44MR7	YCAJ55MR7	YCAJ55ST7	YCAJ65NS7	YCAJ66ST9	YCAJ76ST9	YCAJ77XT9
		CIRCUIT BOARD ASSEMBLIES										
1	1	Power Supply/Analog (Combo Board)	ALL	031-01036-000								
2	1	Micrologic Board	ALL	031-01020-000								
3	1	Relay Output Circuit Board	ALL	031-01021-003								
4	4	CONTACTOR, FAN	ALL	024-24777-000								
5	See p. 3	CONTACTOR, COMPRESSOR	See p. 3	See p. 3								
		FUSES										
6	1	Control Circuit (5 amp) FU16	ALL	025-27922-000								
7	1	Control Circuit (20 amp) FU 15	ALL	025-28967-000								
8	12	Fan Contactor Circuit (25 amp) FU 1-12	ALL	025-27699-000								
9	4	Fuse Block	ALL	025-28968-000								
10	2	Fuse Block	ALL	025-28969-000								
11	2	HIGH PRESSURE CUTOOUT	ALL	025-28985-002								
12	2	MODULE MOTOR PROTECTOR	ALL	025-27522-000								
		SENSOR										
13	1	Outside Air Temperature (OAT)	ALL	025-28663-001								
14	2	Water Temperature (LWT, RWT)	ALL	025-28935-000								
		SUPPRESSOR (Arc With Varistor)										
15	2	For Alarm Contacts	ALL	031-00927-000								
16		For Compressor Contactor										
	4		-17		031-00959-000	031-00959-000	031-00959-000	031-00959-000	031-00959-000	031-00959-000	031-00959-000	031-00959-000
	4		-28		031-00959-000	031-00959-000	031-00959-000	031-00959-000	031-00959-000	031-00959-000	031-00959-000	031-00959-000
	4		-40		031-00958-000	031-00959-000	031-00959-000	031-00959-000	031-00959-000	031-00959-000	031-00959-000	031-00959-000
	4		-46		031-00958-000	031-00958-000	031-00958-000	031-00959-000	031-00959-000	031-00959-000	031-00959-000	031-00959-000
	4		-50		031-00959-000	031-00959-000	031-00959-000	031-00959-000	031-00959-000	031-00959-000	031-00959-000	031-00959-000
	4		-58		031-00958-000	031-00958-000	031-00958-000	031-00958-000	031-00958-000	031-00958-000	031-00959-000	031-00959-000
	4		-64		031-00959-000	031-00959-000	031-00959-000	031-00959-000	031-00959-000	031-00959-000	031-00959-000	031-00959-000
17	4	For Fan Contactors	ALL	031-00960-000								
18	6	For Compressor Loading Solenoids and Heaters and Liquid Line Solenoids	ALL	031-00927-000								
19	1	For Cooler Heater	ALL	031-00927-000								
20	1	THERMOSTAT (Cooler Heater) TH	ALL	025-17622-000								
21	4	TRANSDUCER (Oil and Suction Pressure)	ALL	025-28939-000								
		TRANSFORMER										
22	1	Micropanel, 2T	ALL	025-28700-002								
23	4	Current	ALL	025-27408-000								

① Recommended Stock Spare Parts



MODEL	SYSTEM	COILS
YCAZ88MR6	1	3 ROW
	2	3 ROW
YCAJ44MR7	1	3 ROW
	2	3 ROW
YCAJ44MR6	1	3 ROW
	2	3 ROW
YCAJ55MR7	1	3 ROW
	2	3 ROW
YCAJ44ST6	1	4 ROW
	2	4 ROW
YCAJ55ST7	1	4 ROW
	2	4 ROW
YCAJ54NS6	1	4 ROW
	2	3 ROW
YCAJ65NS7	1	4 ROW
	2	3 ROW
YCAJ55ST8	1	4 ROW
	2	4 ROW
YCAJ66ST9	1	4 ROW
	2	4 ROW
YCAJ65ST8	1	4 ROW
	2	4 ROW
YCAJ76ST9	1	4 ROW
	2	4 ROW
YCAJ66XT8	1	4 ROW
	2	4 ROW
YCAJ77XT9	1	4 ROW
	2	4 ROW

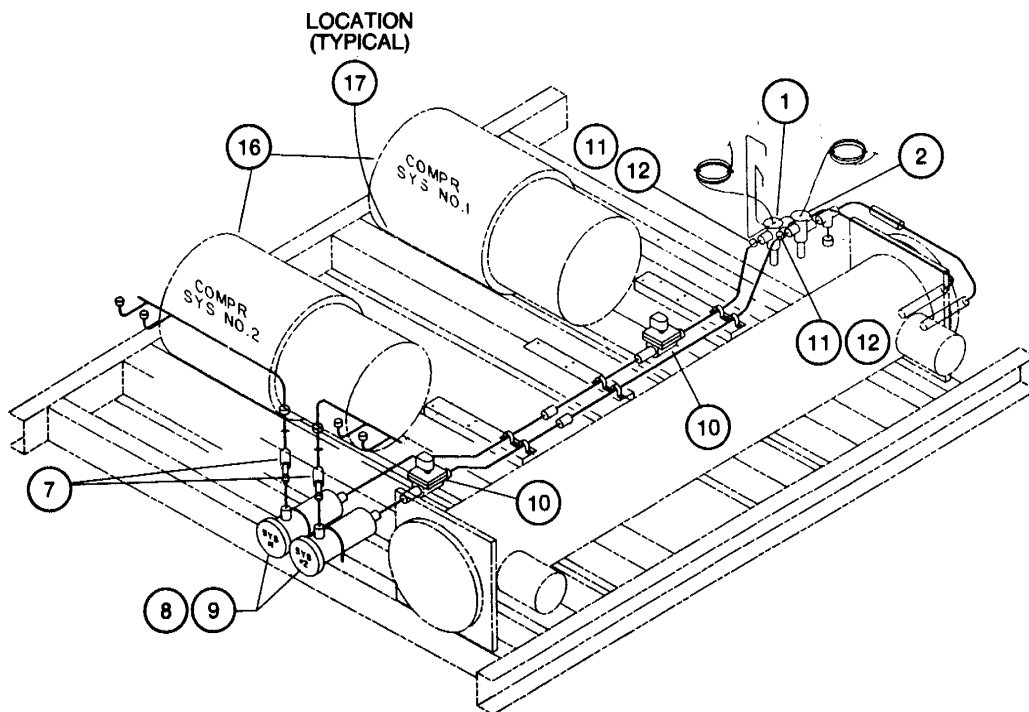
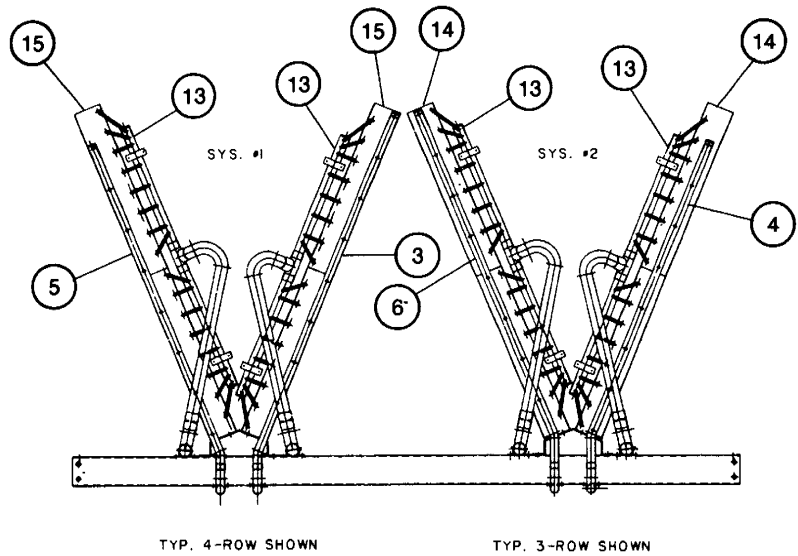


Figure 2 REFRIGERANT PIPING

REFRIGERANT SYSTEM COMPONENTS (See Figure 2)

ITEM NO.	QUANT PER UNIT	DESCRIPTION	SYSTEM NO.	60 HZ UNIT MODEL						
				YCAZ88MR6	YCAJ44MR6	YCAJ44ST6	YCAJ54NS6	YCAJ55ST8	YCAJ65ST8	YCAJ66XT8
				60 HZ PARTS						
①1a	1	Valve Thermal Expansion	1	025-23211	025-21955	025-21955	025-21955	025-21955	025-25944	025-25944
①2a	1		2	025-23211	025-21955	025-21955	025-21955	025-21955	025-25955	025-25944
				50 HZ UNIT MODEL						
				YCAJ44MR7	YCAJ55MR7	YCAJ55ST7	YCAJ65NS7	YCAJ66ST9	YCAJ76ST9	YCAJ77XT9
				50 HZ PARTS						
①1b	1	Valve Thermal Expansion	1	025-21955	025-21955	025-21955	025-21955	025-25944	025-25944	025-25944
①2b	1		2	025-21955	025-21955	025-21955	025-21955	025-25944	025-25944	025-25944
60 HZ/50 HZ COMMON PARTS										
3a	1	Header, Liquid (R.H.)	1	375-01909	375-01909	375-01911	375-01911	375-01911	375-01911	375-01911
4a	1	For Al fin coil—standard	2	375-01909	375-01909	375-01911	375-01909	375-01911	375-01911	375-01911
3b	1	For Cu fin coil—option	1	375-01909	375-01909	375-01911	375-01911	375-01911	375-01911	375-01911
4b	1		2	375-01909	375-01909	375-01911	375-01909	375-01911	375-01911	375-01911
3c	1	For Heresite coil—option	1	375-02558	375-02558	375-02561	375-02561	375-02561	375-02561	375-02561
4c	1		2	375-02558	375-02558	375-02561	375-02558	375-02561	375-02561	375-02561
5a	1	Header, Liquid (L.H.)	1	375-01910	375-01910	375-01912	375-01912	375-01912	375-01912	375-01912
6a	1	For Al fin coil—standard	2	375-01910	375-01910	375-01912	375-01910	375-01912	375-01912	375-01912
5b	1	For Cu fin coil—option	1	375-01910	375-01910	375-01912	375-01912	375-01912	375-01912	375-01912
6b	1		2	375-01910	375-01910	375-01912	375-01910	375-01912	375-01912	375-01912
5c	1	For Heresite coil—option	1	375-02559	375-02559	375-02562	375-02562	375-02562	375-02562	375-02562
6c	1		2	375-02559	375-02559	375-02562	375-02559	375-02562	375-02562	375-02562
7	2	Valve, Liquid Stop	1,2	022-08739	022-08739	022-08739	022-08739	022-08739	022-08739	022-08739
8	2	Dehydrator, Body	1,2	026-21055	026-21055	026-21055	026-21055	026-21055	026-21055	026-21055
⑨9	4	Dehydrator, Core (Use with Item 8)	1,2	026-18328	026-18328	026-18328	026-18328	026-18328	026-18328	026-18328
10	2	Valve, Liquid Solenoid	1,2	025-28376	025-28376	025-28376	025-28376	025-28376	025-28376	025-28376
11	2	Moisture Indicator, Body	1,2	026-20147	026-20147	026-20147	026-20147	026-20147	026-20147	026-20147
12	2	Moisture Indicator, Cap Assy	1,2	026-16958	026-16958	026-16958	026-16958	026-16958	026-16958	026-16958
13a	4	Header Discharge	1,2	375-01929	375-01929	375-01929	375-01929	375-01929	375-01929	375-01929
13b	4	For Al fin coil—standard	1,2	375-01929	375-01929	375-01929	375-01929	375-01929	375-01929	375-01929
13c	4	For Cu fin coil—option	1,2	375-01929	375-01929	375-01929	375-01929	375-01929	375-01929	375-01929
		For Heresite coil—option	1,2	375-02560	375-02560	375-02560	375-02560	375-02560	375-02560	375-02560
14a	4	Coil, Condenser	1	026-31588	026-31588	026-31589	026-31589	026-31589	026-31589	026-31589
15a	4	Al fins—standard	2	026-31588	026-31588	026-31589	026-31588	026-31589	026-31589	026-31589
14b	4	Cu fins—option	1	026-31646	026-31646	026-31647	026-31647	026-31647	026-31647	026-31647
15b	4		2	026-31646	026-31646	026-31647	026-31646	026-31647	026-31647	026-31647
14c	4	Hersite—option	1	326-31642	326-31642	326-31641	326-31641	326-31641	326-31641	326-31641
15c	4		2	326-31642	326-31642	326-31641	326-31642	326-31641	326-31641	326-31641
16	2	Compressor	*	*	*	*	*	*	*	*
17	8	Pad, Isolator	1,2	066-92335	066-92335	066-92335	066-92335	066-92335	066-92335	066-92335

* See page 2

⑨ Recommended Stock Spare Part

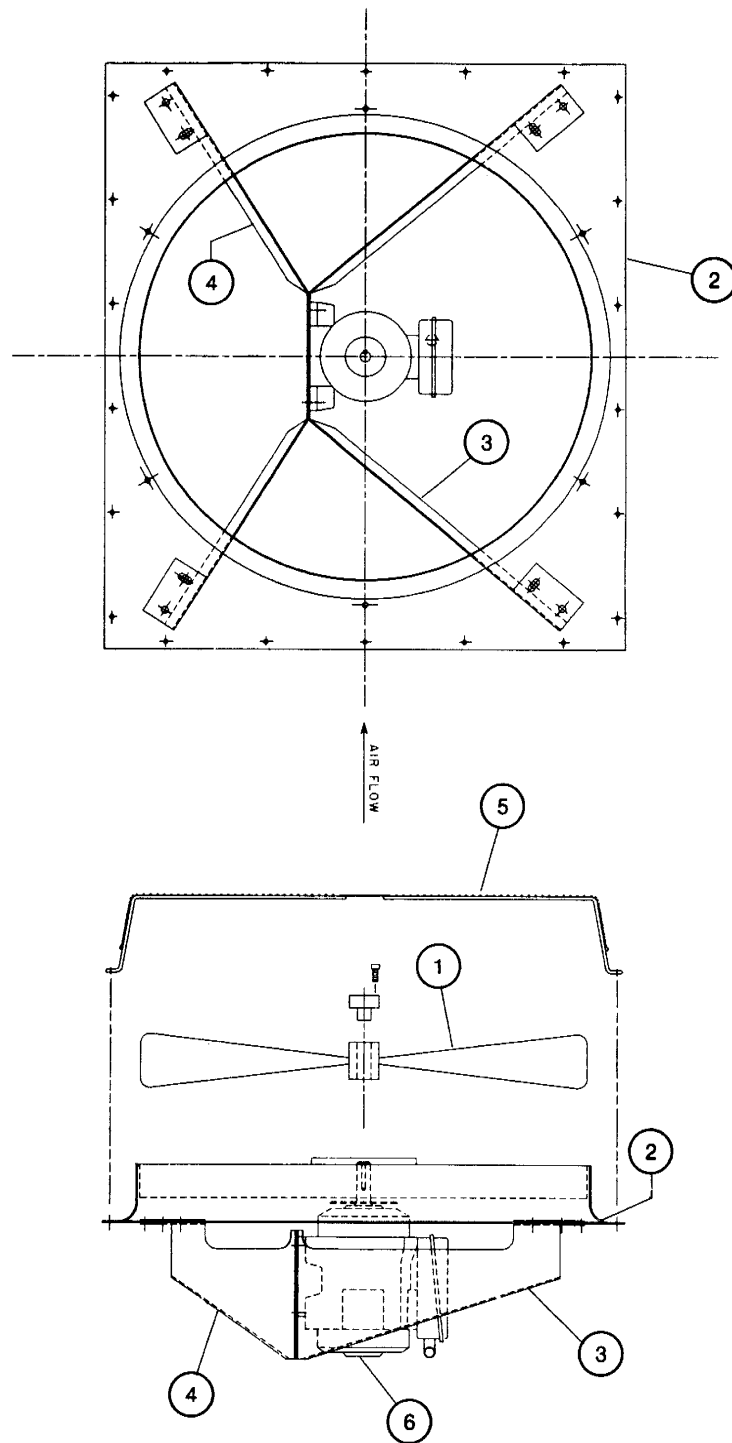


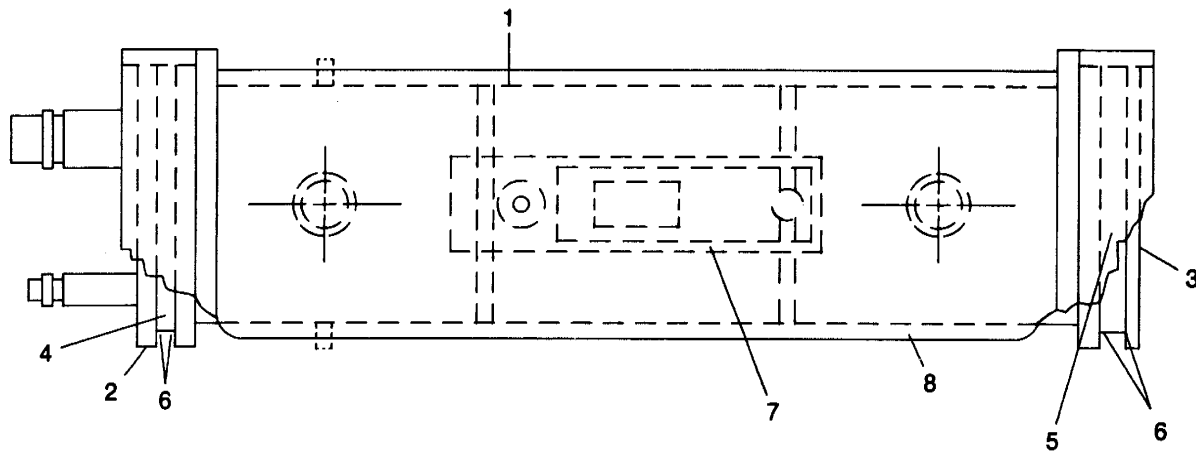
Figure 3 FAN COMPONENTS

FAN COMPONENTS (See Figure 3)

ITEM NO.	DESCRIPTION	VOLTAGE CODE	60 HZ UNIT MODEL							
			YCAJ88MR6	YCAJ44MR6	YCAJ44ST6	YCAJ54NS6	YCAJ55ST8	YCAJ65ST8	YCAJ66XT8	
①	Blade	—17	026-31604-000	026-31604-000	026-31604-000	026-31604-000	026-31603-000	026-31603-000	026-31603-000	
		—28	026-31604-000	026-31604-000	026-31604-000	026-31604-000	026-31603-000	026-31603-000	026-31603-000	
		—40	026-31604-000	026-31604-000	026-31604-000	026-31604-000	026-31603-000	026-31603-000	026-31603-000	
		—46	026-31604-000	026-31604-000	026-31604-000	026-31604-000	026-31603-000	026-31603-000	026-31603-000	
		—58	026-31604-000	026-31604-000	026-31604-000	026-31604-000	026-31603-000	026-31603-000	026-31603-000	
2	Orifice	ALL	026-31601-000	026-31601-000	026-31601-000	026-31601-000	026-31601-000	026-31601-000	026-31601-000	
3	Support, Motor	ALL	075-01901-000	075-01901-000	075-01901-000	075-01901-000	075-01899-000	075-01899-000	075-01899-000	
4	Support, Motor	ALL	075-01902-000	075-01902-000	075-01902-000	075-01902-000	075-01898-000	075-01898-000	075-01898-000	
5	Guard	ALL	026-31602-000	026-31602-000	026-31602-000	026-31602-000	026-31602-000	026-31602-000	026-31602-000	
⑥	Motor	—17	024-25179-002	024-25179-002	024-25179-002	024-25179-002	024-24604-002	024-24604-002	024-24604-002	
		—28	024-25179-002	024-25179-002	024-25179-002	024-25179-002	024-24604-002	024-24604-002	024-24604-002	
		—40	024-25179-001	024-25179-001	024-25179-001	024-25179-001	024-24604-001	024-24604-001	024-24604-001	
		—46	024-25179-001	024-25179-001	024-25179-001	024-25179-001	024-24604-001	024-24604-001	024-24604-001	
		—58	024-25250-000	024-25250-000	024-25250-000	024-25250-000	024-24758-000	024-24758-000	024-24758-000	

ITEM NO.	DESCRIPTION	VOLTAGE CODE	50 HZ UNIT MODEL							
			YCAJ44MR7	YCAJ55MR7	YCAJ55ST7	YCAJ65NS7	YCAJ66ST9	YCAJ76ST9	YCAJ77XT9	
①	Blade	— 50 — 64	026-31603-000 026-31603-000	026-31603-000 026-31603-000	026-31603-000 026-31603-000	026-31603-000 026-31603-000	026-31639-000 026-31639-000	026-31639-000 026-31639-000	026-31639-000 026-31639-000	
2	Orifice	ALL	026-31601-000	026-31601-000	026-31601-000	026-31601-000	026-31601-000	026-31601-000	026-31601-000	
3	Support, Motor	ALL	075-01901-000	075-01901-000	075-01901-000	075-01901-000	075-01899-000	075-01899-000	075-01899-000	
4	Support, Motor	ALL	075-01902-000	075-01902-000	075-01902-000	075-01902-000	075-01898-000	075-01898-000	075-01898-000	
5	Guard	ALL	026-31602-000	026-31602-000	026-31602-000	026-31602-000	026-31602-000	026-31602-000	026-31602-000	
⑥	Motor	— 50 — 64	024-25179-001 024-25179-001	024-25179-001 024-25179-001	024-25179-001 024-25179-001	024-25179-001 024-25179-001	024-24604-001 024-24604-001	024-24604-001 024-24604-001	024-24604-001 024-24604-001	

© Recommend Stock Spare Parts



COOLER COMPONENTS (See Figure Above)

ITEM NO.	QUANT PER UNIT	DESCRIPTION	HZ	UNIT MODEL						
			60	YCAZ88MR6	YCAJ44MR6	YCAJ44ST6	YCAJ54NS6	YCAJ55ST8	YCAJ65ST8	YCAJ66XT8
			50	YCAJ44MR7	YCAJ55MR7	YCAJ55ST7	YCAJ65NS7	YCAJ66ST9	YCAJ76ST9	YCAJ77XT9
1	1	Cooler, Less Insulation and Heater (Includes Items 2-6)	375-02039	375-02039	366-93064	366-93504	366-93064	366-93064	375-02277	
2	1	Head, Connection End	366-93091	366-93091	366-93093	366-93091	366-93093	366-93093	375-02276	
3	1	Head, Back End	366-87740	366-87740	366-92896	366-87740	366-92896	366-92896	366-93552	
4	1	Baffle, Pass, Connection End	066-93085	066-93085	066-92884	066-93085	066-92884	066-92884	066-93545	
5	1	Baffle, Pass, Back End	066-93084	066-93084	066-92882	066-93084	066-92882	066-92882	066-93547	
⑥†	4	Gasket, Pass Baffle and Head	066-93083	066-93083	066-92899	066-93083	066-92899	066-92899	066-93554	
⑦	Varies with unit	Heater, Cooler Number of Heaters Per Unit	025-22692 1	025-22692 1	025-22690 1	025-22692 1	025-22690 1	025-22690 1	025-22691 2	
8	3	Insulation ¾" × 42" × 68"	010-04198	010-04198	010-04198	010-04198	010-04198	010-04198	010-04198	

† When replacing gasket, Item 6, use:

⊙ Sealer, Gasket, 013-02827

⊙ Primer, 013-01753

⊙ Recommended Stock Spare Parts

COMPONENTS FOR UNIT OPTIONS

ITEM NO.	QUANT PER UNIT	DESCRIPTION	VOLTAGE CODE	ALL MODELS	HZ	UNIT MODEL						
						60	YCAZ88MR6	YCAJ44MR6	YCAJ44ST6	YCAJ54N66	YCAJ55ST6	YCAJ65ST6
					50	YCAJ44MR7	YCAJ55MR7	YCAJ55ST7	YCAJ65N67	YCAJ66ST9	YCAJ76ST9	YCAJ77XT9
A	1	Power Disconnect Switch (Pos)	-17			024-25240	024-25240	024-25240	024-25288	024-25288	024-25288	024-25288
			-28			024-25240	024-25240	024-25240	024-25240	024-25288	024-25288	024-25288
			-40			024-25239	024-25239	024-25239	024-25239	024-25239	024-25239	024-25240
			-46			024-25239	024-25239	024-25239	024-25239	024-25239	024-25239	024-25239
			-50			024-25239	024-25239	024-25239	024-25239	024-25239	024-25239	024-25240
			-58			024-25239	024-25239	024-25239	024-25239	024-25239	024-25239	024-25239
			-64			024-25239	024-25239	024-25240	024-25239	024-25239	024-25239	024-25240
B	1	Control Transformer Kit Control Transformer (1T)	-17		025-27930-000							
			-28		025-27929-000							
			-40		025-27929-000							
			-46		025-27929-000							
			-50		025-27929-000							
			-58		025-27929-000							
			-64		025-27929-000							
C	1	Fuse (13 FU, 14 FU)	-17		025-27699-000							
			-28		025-27509-015							
			-40		025-28967-000							
			-46		025-25584-000							
			-50		025-28967-000							
			-58		025-21145-000							
			-64		025-28967-000							
D	1	Dual Unit Sequence Kit			025-15154-000							
E	1	Control Temp. Relay	ALL		024-19286-002							
F	1	Toggle Switch	ALL		024-14057-000							
G	1	Flow Switch (FLSW)	ALL		024-15793-000							
H	2	Loadminder Kit										
I	2	Valve, Regulator, Hot Gas (HGSV)	ALL		025-27647-000							
		Varistor Suppressor	ALL		031-00927-000							
J	2*	Low Ambient Kit	ALL		025-28938-000							
K	2*	Transducer, Pressure Isolator, Transducer	ALL		026-30229-000							
		(Use with Item No. "J")										
L	1	Contactor, Fan	ALL		024-24777-000							
M	1	Suppressor, Transient	ALL		031-00960-000							
N	2*	Transducer, Discharge Pressure Isolator, Transducer	ALL		025-28938-000							
O	2*	(Use with Item No. "N")	ALL		026-30229-000							

* One (1) required per compressor



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