



**RECIPAK LIQUID CHILLERS
AIR COOLED – RECIPROCATING HERMETIC**

RENEWAL PARTS

Supersedes: Nothing

1192

Form 150.75-RP1

60 HZ MODELS

YDAJ87AU6, YDAJ88XU6, YDAJ99XW6

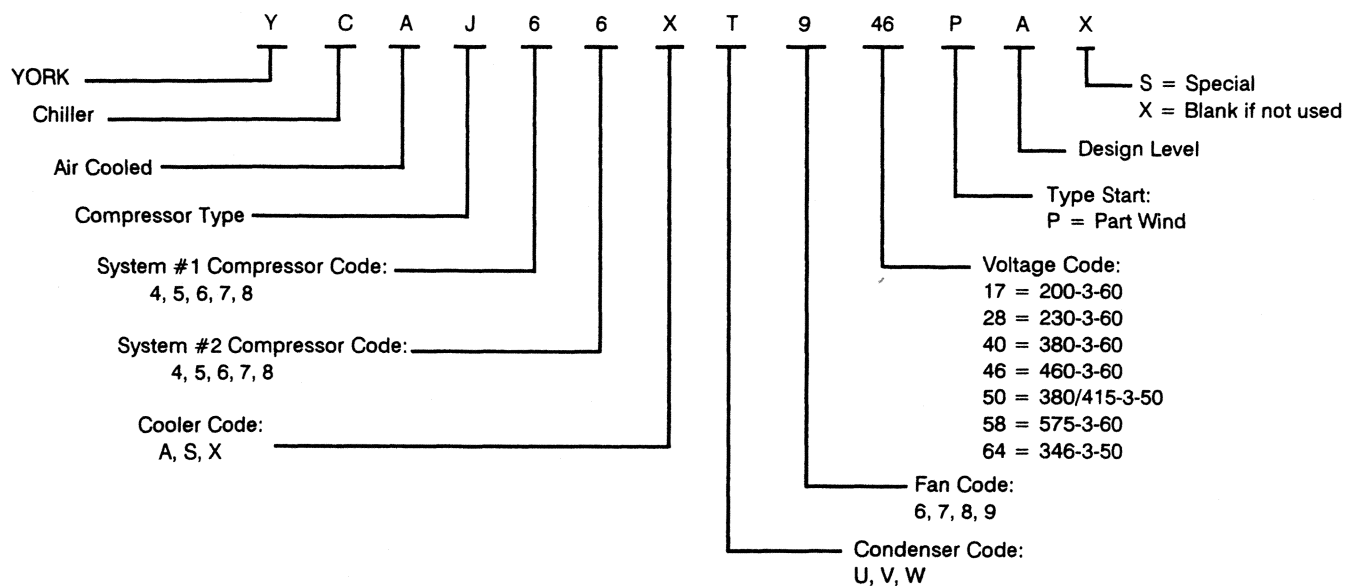
50 HZ MODELS

YDAJ87SU7, YDAJ97AU7, YDAJ98XU7, YDAJ99XU7

STYLE A

UNIT NOMENCLATURE

The model number denotes the following characteristics of the unit:



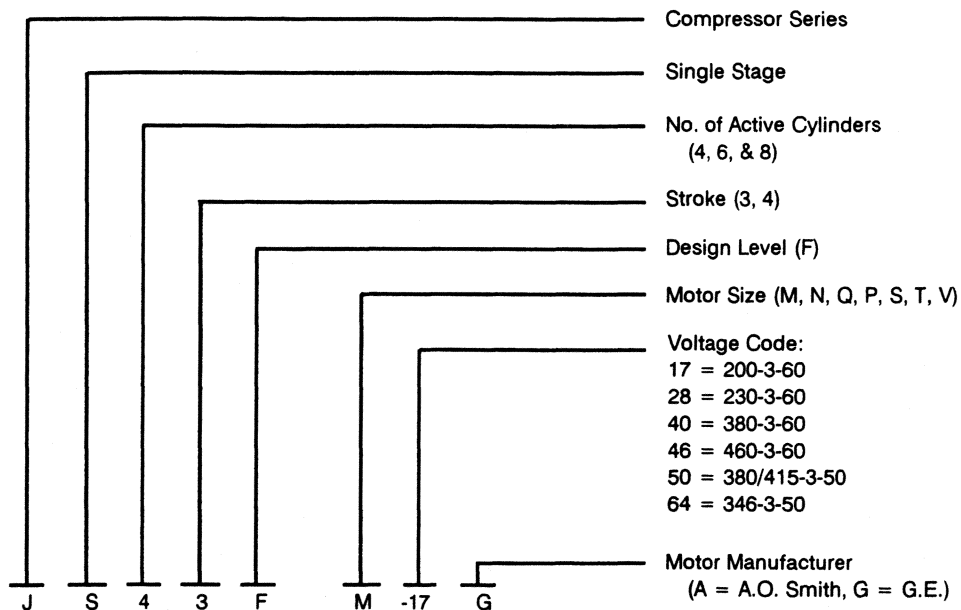
COMPRESSOR MODEL NUMBERS

UNIT MODEL	60 HZ	YDAJ87AU6	YDAJ88XU6	YDAJ99XW6
COMPRESSOR MODEL	SYSTEM NO. 1	JS83-S	JS83-S	JS84-V
	SYSTEM NO. 2	JS64-S	JS83-S	JS84-V
	SYSTEM NO. 3	JS83-S	JS83-S	JS84-V
	SYSTEM NO. 4	JS64-S	JS83-S	JS84-V

UNIT MODEL	50 HZ	YDAJ87SU7	YDAJ97AU7	YDAJ98XU7	YDAJ99XU7
COMPRESSOR MODEL	SYSTEM NO. 1	JS83-S	JS84-T	JS84-T	JS84-T
	SYSTEM NO. 2	JS64-S	JS64-S	JS83-S	JS84-T
	SYSTEM NO. 3	JS83-S	JS84-T	JS84-T	JS84-T
	SYSTEM NO. 4	JS64-S	JS64-S	JS83-S	JS84-T

For replacement compressors and/or compressor parts, refer to the following: "J" Compressors – Form 180.23-RP3.

COMPRESSOR NOMENCLATURE



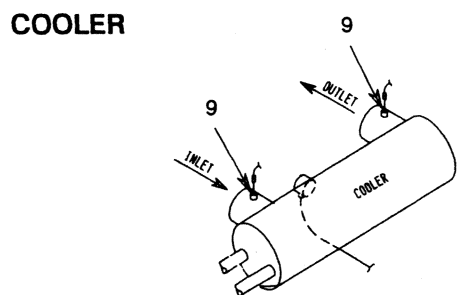
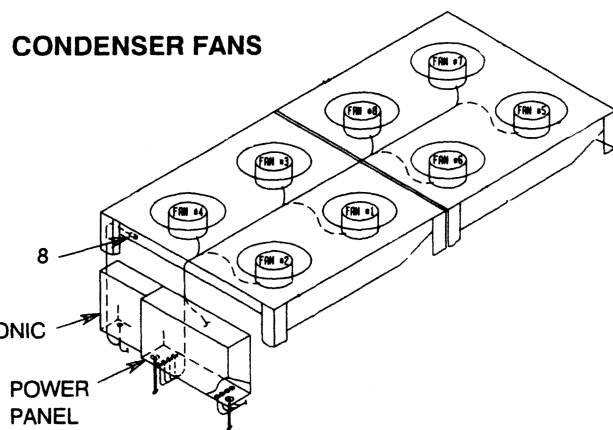
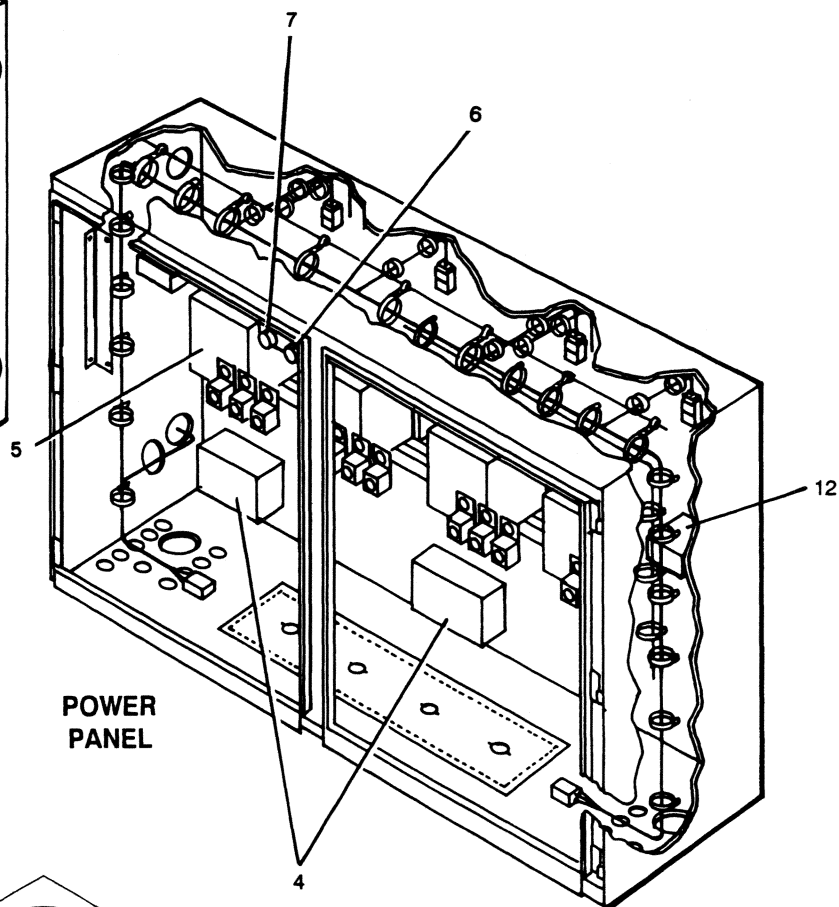
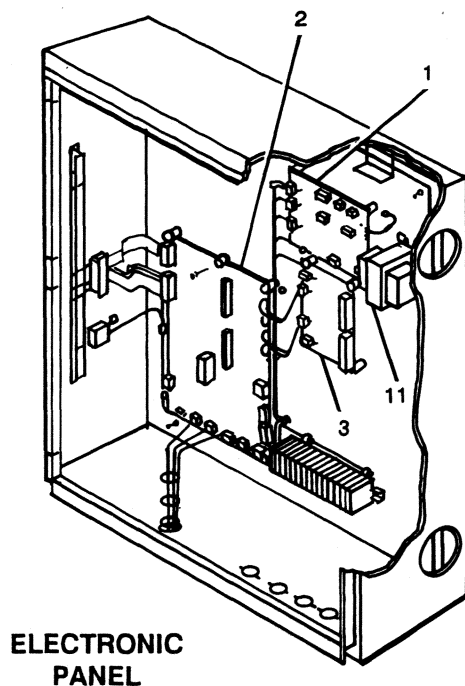
⑤ COMPRESSOR MOTOR CONTACTORS

VOLTAGE CODE	TYPE START	SYSTEM	60 HZ UNIT MODEL		
			YDAJ87AU6	YDAJ88XU6	YDAJ99XW6
-17	P	1, 3	024-25512-000	024-25512-000	NA
		2, 4	024-25512-000	024-25512-000	NA
-28	P	1, 3	024-25512-000	024-25512-000	NA
		2, 4	024-25512-000	024-25512-000	NA
-40	P	1, 3	024-25542-000	024-25542-000	024-25541-000
		2, 4	024-25542-000	024-25542-000	024-25541-000
-46	P	1, 3	024-25542-000	024-25542-000	024-25541-000
		2, 4	024-25542-000	024-25542-000	024-25541-000
-58	P	1, 3	024-25543-000	024-25543-000	024-25542-000
		2, 4	024-25543-000	024-25543-000	024-25542-000

VOLTAGE CODE	TYPE START	SYSTEM	50 HZ UNIT MODEL			
			YDAJ87SU7	YDAJ97AU7	YDAJ98XU7	YDAJ99XU7
-50	P	1, 3	024-25542-000	024-25542-000	024-25542-000	024-25542-000
		2, 4	024-25542-000	024-25542-000	024-25542-000	024-25542-000
-64	P	1, 3	024-25542-000	024-25541-000	024-25541-000	024-25541-000
		2, 4	024-25542-000	024-25541-000	024-25541-000	024-25541-000

NOTES: ⑤ = Recommended Stock Spare Parts
P = Part Winding
Part Winding (start) compressors require two (2) contactors per compressor (system).
Contactors include suppressors.
NA = Not Available

NOTE: Components of only the master unit (two modules) are shown on this page and in the illustration on the bottom of page 5. Illustrations and indicated component locations are typical for either the master unit or the slave unit which, combined, make up the four modules of the total unit.



COMPRESSORS

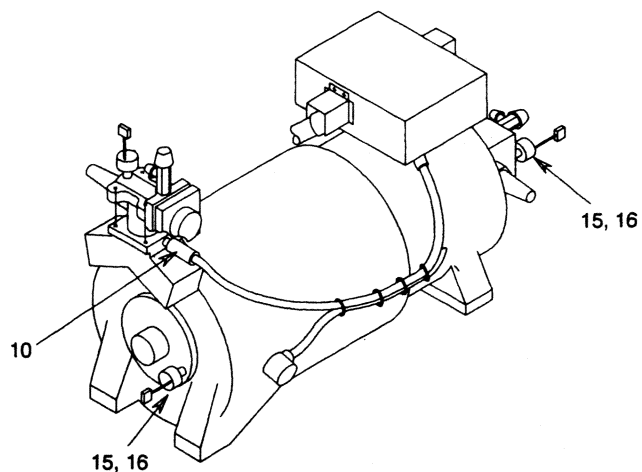


FIGURE 1

CONTROL COMPONENTS (See Fig. 1)

ITEM NO.	QTY. ² PER UNIT	DESCRIPTION	VOLT. CODE	ALL MODELS
①	2	CIRCUIT BOARD ASSEMBLIES		
②	2	Power Supply Board	ALL	031-01094-000
③	2	Micro Board	ALL	031-01095-000
④	2	Relay Board	ALL	031-01093-000
④	16	CONTACTORS		
		Fan, w/suppressor	17	024-25521-000
			28	024-25521-000
			40	024-25522-000
			46	024-25522-000
			50	024-25522-000
			58	024-25522-000
			64	024-25522-000
5	*	Compressor, w/suppressor	*	*
⑥	2	FUSES		
⑦	2	Electronic Power Supply Circuit (5 amp), 2FU	ALL	025-27922-000
		Control Circuit (20 amp), 1FU	ALL	025-28967-000
⑧	2	SENSORS		
⑨	4	Outside Air Temperature (OAT)	ALL	025-28663-001
		Water Temperature (LWT, RWT)	ALL	025-28935-000
⑩	4	HIGH PRESSURE CUTOUT		
		Switch, Pressure	ALL	025-28985-002
11	2	TRANSFORMERS		
12	4	Micro Panel (2T)	ALL	025-27911-000
		Current (1CT, 2CT)	ALL	025-27408-000
⑬	12	SUPPRESSORS		
14 ¹	6	Suppressors for Compressor Unloading Sol. & Liquid Line Sol.	ALL	031-01117-000
		Suppressors for Options	ALL	031-00808-000
⑮	8	TRANSDUCERS		
16	8	Transducer (Oil and Suction Pressure)	ALL	025-29139-002
		Adaptor (Use with Item 15.)	ALL	023-16272-000
⑰	4	MODULE, MOTOR PROTECTOR	ALL	025-27522-000
18 ³	1	SENSOR, MIXED WATER TEMPERATURE (SPLICE KIT)	ALL	025-28935-000

NOTES: ⑤ Recommended stock spare part.

* See page 3.

1. Not shown, shipped loose for field use in the Application of Inductive Loads, such as:

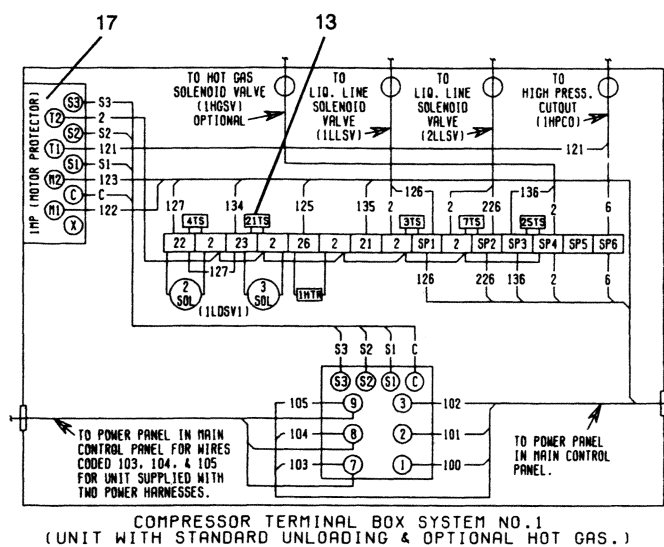
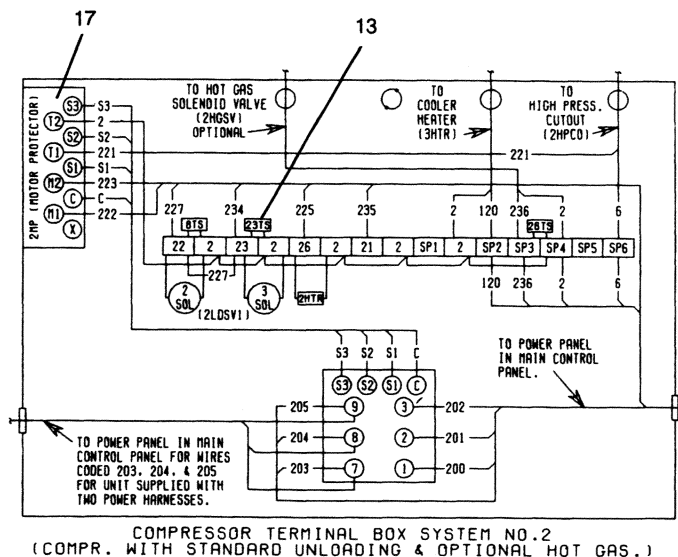
- Alarm Circuit Relays

- Pump Starter Pilot Relays

See Form 150.65-NM1, Installation, Operating and Maintenance

2. Quantities shown above are total quantities for the unit (4 modules), including those for both the master unit (2 modules) and the slave unit (2 modules).

3. Not shown.

**COMPRESSOR SYS NO. 1****COMPRESSOR SYS NO. 2**

MODEL	SYSTEM	COILS
YDAJ87SU7	1,3 2,4	3 ROW
YDAJ87AU6	1,3 2,4	3 ROW
YDAJ97AU7	1,3 2,4	3 ROW
YDAJ88XU6	1,3 2,4	3 ROW
YDAJ98XU7	1,3 2,4	3 ROW
YDAJ99XW6	1,3 2,4	4 ROW
YDAJ99XU7	1,3 2,4	3 ROW

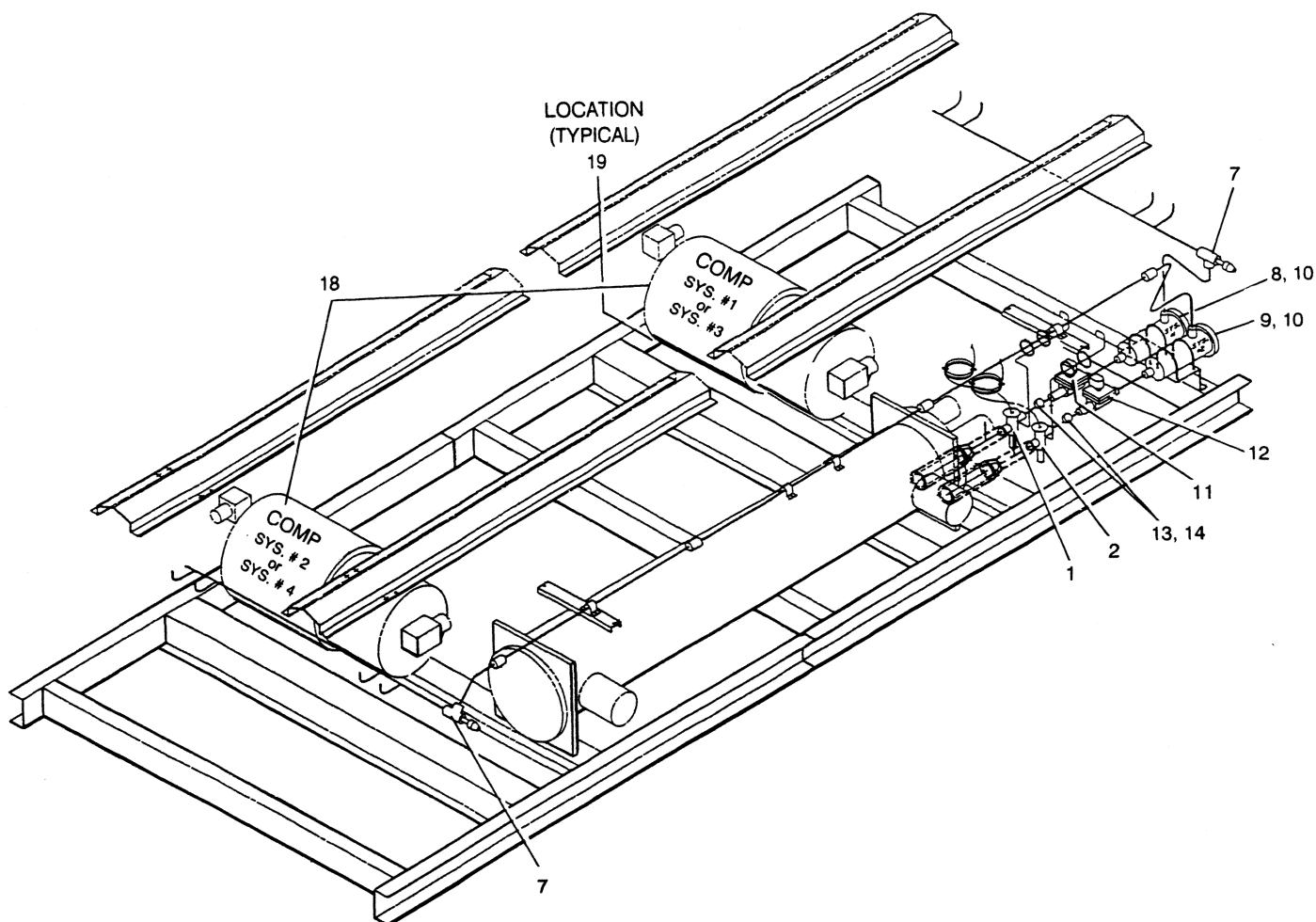
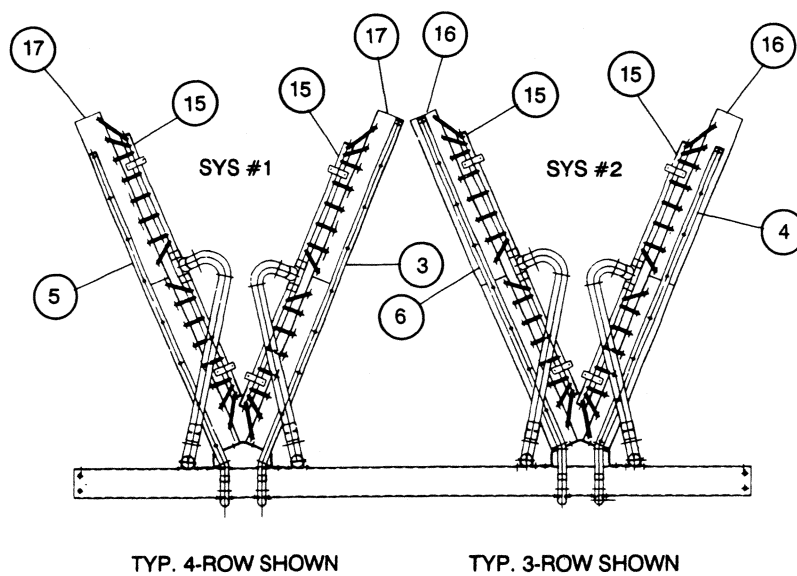


FIG. 2 – REFRIGERANT PIPING

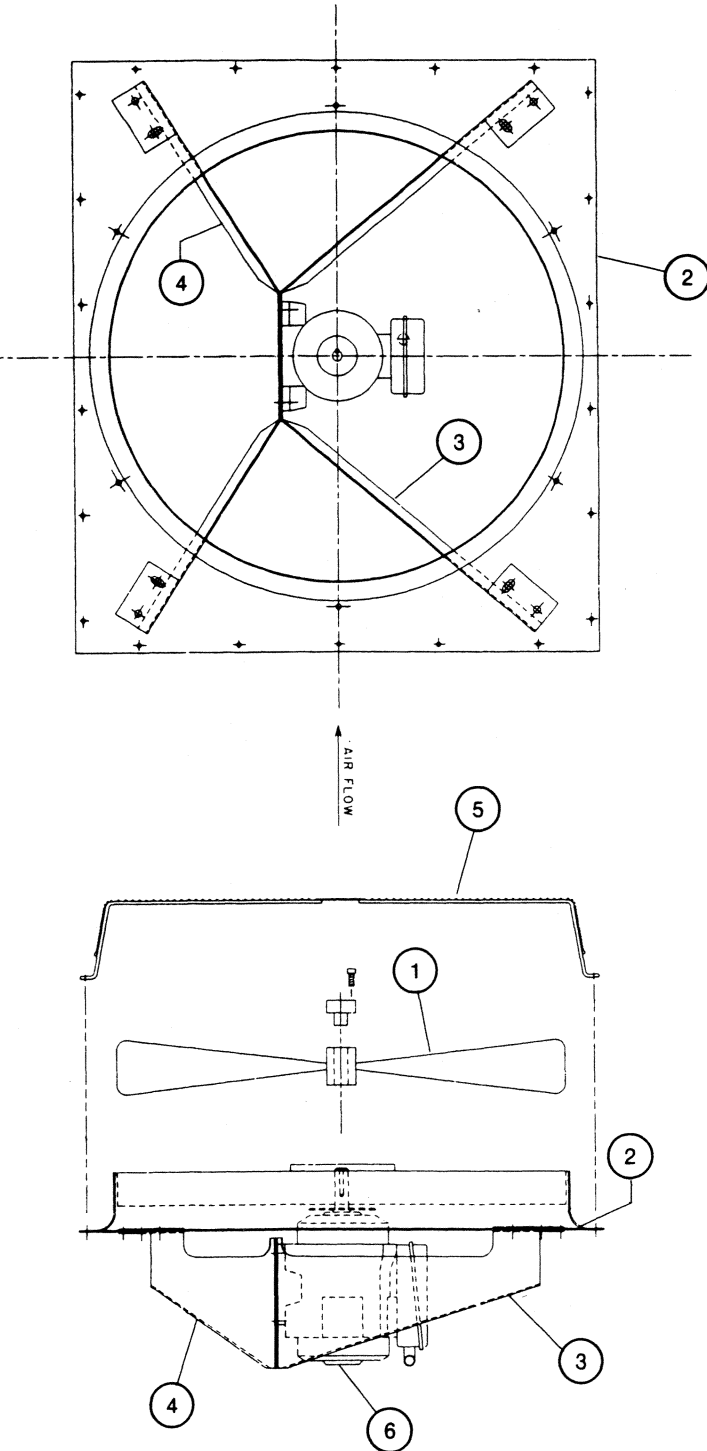
REFRIGERANT SYSTEM COMPONENTS (See Fig. 2)

ITEM NO.	QTY. PER UNIT	DESCRIPTION	SYS. NO.	HZ	UNIT MODEL				
				60		YDAJ87AU6	YDAJ88XU6	YDAJ99XW6	
				50	YDAJ87SU7	YDAJ97AU7	YDAJ98XU7		YDAJ99XU7
⑨1	2	Valve, Thermal Expansion	1, 3		025-25944	025-25944	025-25944	025-28976	025-25944
⑨2	2		2, 4		025-25944	025-25944	025-25944	025-28976	025-25944
3a	4	Header, Liquid (R.H.) For Al Fin Coil – Standard	1, 3		375-01909	375-01909	375-01909	375-01911	375-01909
4a	4		2, 4		375-01909	375-01909	375-01909	375-01911	375-01909
3b	4	For Cu Fin Coil – Option	1, 3		375-01909	375-01909	375-01909	375-01911	375-01909
4b	4		2, 4		375-01909	375-01909	375-01909	375-01911	375-01909
3c	4	For Heresite Coil – Option	1, 3		375-02558	375-02558	375-02558	375-02561	375-02558
4c	4		2, 4		375-02558	375-02558	375-02558	375-02561	375-02558
5a	4	Header, Liquid (L.H.) For Al Fin Coil – Standard	1, 3		375-01910	375-01910	375-01910	375-01912	375-01910
6a	4		2, 4		375-01910	375-01910	375-01910	375-01912	375-01910
5b	4	For Cu Fin Coil – Option	1, 3		375-01910	375-01910	375-01910	375-01912	375-01910
6b	4		2, 4		375-01910	375-01910	375-01910	375-01912	375-01910
5c	4	For Heresite Coil – Option	1, 3		375-02559	375-02559	375-02559	375-02562	375-02559
6c	4		2, 4		375-02559	375-02559	375-02559	375-02562	375-02559
7	4	Valve, Liquid Stop	1, 2, 3, 4		022-08740	022-08740	022-08740	022-08740	022-08740
8	2	Dehydrator, Body	1, 3		026-21055	026-16960	026-16960	026-16960	026-16960
9	2		2, 4		026-21055	026-21055	026-16960	026-16960	026-16960
⑩	Varies with unit	Dehydrator, Core	1, 2, 3, 4		026-18328	026-18328	026-18328	026-18328	026-18328
			1, 3		2	3	3	3	3
			2, 4		2	2	3	3	3
		(Use with Item 9)							
11	2	Valve, Liquid Solenoid	1, 3		025-28376	025-28375	025-28375	025-28375	025-28375
12	2		2, 4		025-28376	025-28376	025-28375	025-28375	025-28375
13	4	Moisture Indicator, Body	1, 2, 3, 4		026-20147	026-20147	026-20147	026-29812	026-20147
14	4	Moisture Indicator, Cap Ass'y.	1, 2, 3, 4		026-16958	026-16958	026-16958	026-16958	026-16958
15a	16	Header, Discharge For Al Fin Coil – Standard	1, 2, 3, 4		375-01929	375-01929	375-01929	375-01929	375-01929
15b	16	For Cu Fin Coil – Option	1, 2, 3, 4		375-01929	375-01929	375-01929	375-01929	375-01929
15c	16	For Heresite Coil – Option	1, 2, 3, 4		375-02560	375-02560	375-02560	375-02560	375-02560
16a	16	Coil, Condenser Al Fins – Standard	1, 3		026-31588	026-31588	026-31588	026-31589	026-31588
17a	16		2, 4		026-31588	026-31588	026-31588	026-31589	026-31588
16b	16	Cu Fins – Option	1, 3		026-31646	026-31646	026-31646	026-31647	026-31646
17b	16		2, 4		026-31646	026-31646	026-31646	026-31647	026-31646
16c	16	Heresite – Option	1, 3		326-31642	326-31642	326-31642	326-31641	326-31642
17c	16		2, 4		326-31642	326-31642	326-31642	326-31641	326-31642
18	4	Compressor	*		*	*	*	*	*
19	16	Pad Isolator	1, 2, 3, 4		066-92335	066-92335	066-92335	066-92335	066-92335

* See Page 2.

⑩ Recommended Stock Spare Parts

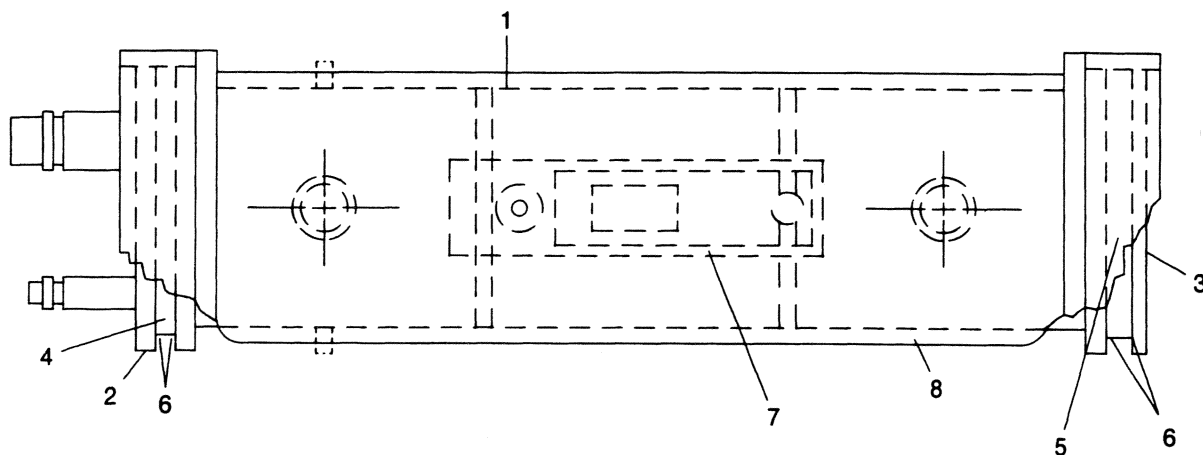
FAN COMPONENTS



ITEM NO.	DESCRIPTION	VOLT-AGE CODE	ALL MODELS
⑤ 1	BLADE	ALL	026-31604-000
2	ORIFICE	ALL	026-31601-000
3	SUPPORT, MOTOR	ALL	075-01901-000
4	SUPPORT, MOTOR	ALL	075-01902-000
5	GUARD	ALL	026-31602-000
⑤ 6	MOTOR	-17	024-25179-002
		-28	024-25179-002
		-40	024-25179-001
		-46	024-25179-001
		-58	*
		-50	024-25179-001
		-64	024-25179-001

⑤ Recommended stock spare parts

* -58 MOTOR VOLTAGE PART NUMBERS	
YCAJ76SU6	024-25250-000
77SU6	
87AU6	
88XU6	
98XV6	024-25179-001
YCAJ99XW6	



COOLER COMPONENTS (See Fig. Above)

ITEM NO.	QTY. PER UNIT	QTY. PER COOLER	DESCRIPTION	HZ	UNIT MODEL			
				60		YDAJ87AU6	YDAJ88XU6	YDAJ99XW6
				50	YDAJ87SU7	YDAJ97AU7	YDAJ98XU7	YDAJ99XU7
1	2	—	Cooler, Less Insulation and Heater (Includes Items 2-6)		366-93064	375-04209	375-02277	375-02277
2	—	1	Head, Connection End		366-93093	375-04217	375-02276	375-02276
3	—	1	Head, Back End		366-92896	375-04215	366-93552	366-93552
4	—	1	Baffle, Pass, Connection End		066-92884	075-04211	066-93545	066-93545
5	—	1	Baffle, Pass, Back End		066-92882	075-04212	066-93547	066-93547
⑥†	—	4	Gasket, Pass Baffle and Head		066-92899	075-04213	066-93554	066-93554
⑦	—	2 (1 of each)	Heater, Cooler		025-22690 025-22691	025-22691 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

† When replacing gasket, Item 6, use:

⑥ Sealer, Gasket, 031-02827

⑥ Primer, 031-01753

⑥ Recommended Stock Spare Parts

COMPONENTS FOR UNIT OPTIONS

ITEM NO.	QTY. PER UNIT	DESCRIPTION	VOLT CODE	ALL MODELS	HZ	UNIT MODEL			
					60		YDAJ87AU6	YDAJ88XU6	YDAJ99XW6
					50	YDAJ87SU7	YDAJ97AU7	YDAJ98XU7	YDAJ99XU7
A	2	POWER DISCONNECT SWITCH (PDS) Switch, Disconnect	-17 -28 -40 -46 -50 -58 -64		- - - - 024-25563 - 024-25563	024-25241 024-25241 024-25563 024-25563 024-25563 024-25564 024-25563	NA 024-25241 024-25563 024-25563 024-25563 024-25564 024-25563	- - 024-25562 024-25563 024-25563 024-25563 024-25563	
B	Varies with Unit	ADDITIONAL STEPS OF UNLOADING Suppressor, Unit Model Columns list quantity required in addition to standard quantities (see p. 5 for standard). NOTE: This option also requires Relay Board Kit, Item F.	ALL	031-01117-000	2	2	4	4	
C	2	CONTROL TRANSFORMER (1T) Transformer	-17 -28 -40 -46 -50 -58 -64	025-29627-001 025-29627-002 025-29627-003 025-29627-002 025-29627-003 025-29627-004 NA					
D	4	Fuse (3FU, 4FU)	-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 NA					
E	8	LOW AMBIENT KIT Fan Contactor w/Suppressor NOTE: This option also requires Relay Board Kit, Item F & Discharge Pressure Readout Kit, Items G & H.	ALL	024-25545-000					
F	2	PUMP CONTROL KIT/RELAY BOARD KIT Relay Control Board	ALL	031-01093-000					
G	4*	DISCHARGE PRESSURE READOUT KIT Transducer, Discharge Pressure	ALL	025-29139-001					
H	4*	Adapter (Use with Item H)	ALL	023-16272-000					
I	2	LOADMINDER (HOT GAS BYPASS) Valve Regulator, Hot Gas	ALL	025-27647-000					
J	2	Suppressor NOTE: Loadminder Option also requires Relay Board Kit, Item F.	ALL	031-01117-000					
K	1	FLOW CONTROL SWITCH Switch, Flow	ALL	024-15793-000					
L	1	REMOTE CONTROL CENTER Control Micro Board	ALL	031-01196-000					
M	1	WALL-MOUNTED TRANSFORMER Transformer, Primary Voltage 115V 230V NOTE: Used with Remote Control Center, if specified.	- -	025-29917-001 025-29917-002					
N	1	MULTIPLE UNIT SEQUENCING KIT Sensor, Temperature	ALL	025-28935-000					
O	1	Resistor, Fixed, 180 ohm	ALL	025-29900-000					
P	1	BAS INTERFACE Control, Remote Reset	ALL	031-00814-000					

* One (1) Required Per Compressor
KEY: - = Not Applicable
NA = Not Available

