



PACKAGED LIQUID CHILLERS

AIR COOLED — RECIPROCATING HERMETIC

RENEWAL PARTS

Supersedes: Nothing

790

Form 150.44-RP2

60 HZ MODELS

YCAZ33JD3, YCAZ44LD3, YCAZ47LE3, YCAZ77LE3, YCAZ88ME3

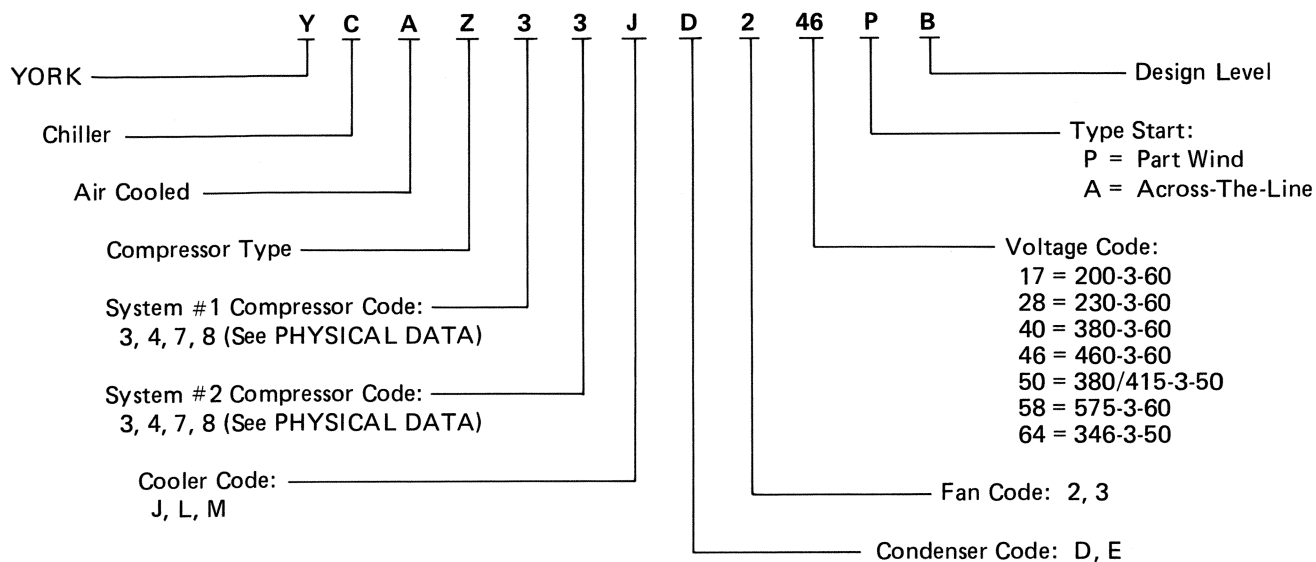
50 HZ MODELS

YCAZ33JD2, YCAZ44JD2, YCAZ47LD2, YCAZ77LE2, YCAZ88ME2

STYLE B

NOMENCLATURE

The model number denotes the following characteristics of the unit:



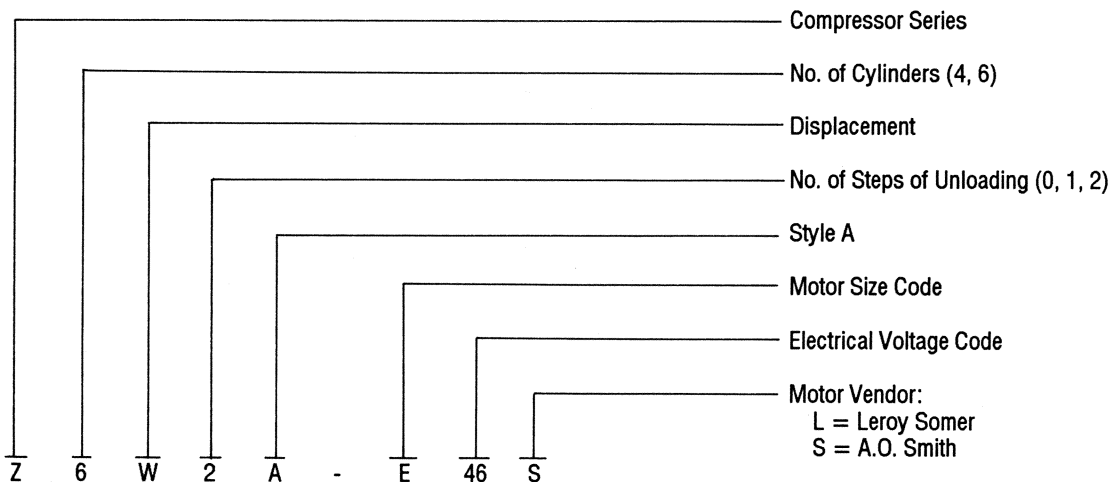
COMPRESSOR MODEL NUMBERS

UNIT MODEL	60 HZ	YCAZ33JD3	YCAZ44LD3	YCAZ47LE3	YCAZ77LE3	YCAZ88ME3
COMPRESSOR MODEL	SYSTEM NO. 1	Z4K1A-B	Z4M1A-C	Z6S1A-D	Z6S1A-D	Z6W1A-E
	SYSTEM NO. 2	Z4K1A-B	Z4M1A-C	Z4M1A-C	Z6S1A-D	Z6W1A-E

UNIT MODEL	50 HZ	YCAZ33JD2	YCAZ44JD2	YCAZ47LD2	YCAZ77LE2	YCAZ88ME2
COMPRESSOR MODEL	SYSTEM NO. 1	Z4K1A-B	Z4M1A-C	Z6S1A-D	Z6S1A-D	Z6W1A-E
	SYSTEM NO. 2	Z4K1A-B	Z4M1A-C	Z4M1A-C	Z6S1A-D	Z6W1A-E

For replacement compressors and/or compressor parts, refer to Form 180.45-RP1.

COMPRESSOR NOMENCLATURE



^s COMPRESSOR MOTOR CONTACTORS

VOLT. CODE	TYPE START	SYS- TEM	UNIT MODEL										
			HZ	YCAZ47LE3									
				YCAZ33JD3	YCAZ33JD2	YCAZ44LD3	YCAZ44JD2	YCAZ47LE3	YCAZ47LD2	YCAZ77LE3	YCAZ77LE2	YCAZ88ME3	YCAZ88ME2
-17	A	1	—	—	—	—	—	—	—	—	—	—	—
		2	—	—	—	—	—	—	—	—	—	—	
	P	1	024-24775-000	—	024-24776-000	—	024-24776-000	—	024-24776-000	—	024-24776-000	024-24988-001	—
		2	024-24775-000	—	024-24776-000	—	024-24776-000	—	024-24776-000	—	024-24988-001	—	—
-28	A	1	—	—	—	—	—	—	—	—	—	—	—
		2	—	—	—	—	—	—	—	—	—	—	—
	P	1	024-24775-000	—	024-24775-000	—	024-24776-000	—	024-24776-000	—	024-24776-000	—	—
		2	024-24775-000	—	024-24775-000	—	024-24776-000	—	024-24776-000	—	024-24776-000	—	—
-40	A	1	024-24775-000	—	024-24775-000	—	—	—	—	—	—	—	—
		2	024-24775-000	—	024-24775-000	—	—	—	—	—	—	—	—
	P	1	024-24775-000	—	024-24775-000	—	—	—	024-24775-000	—	024-24775-000	—	—
		2	024-24775-000	—	024-24775-000	—	—	—	024-24775-000	—	024-24775-000	—	—
-46	A	1	024-24775-000	—	024-24775-000	—	—	—	024-24982-000	—	—	—	—
		2	024-24775-000	—	024-24775-000	—	—	—	024-24982-000	—	—	—	—
	P	1	024-24775-000	—	024-24775-000	—	—	—	024-24775-000	—	024-24775-000	—	—
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		2	—	024-24775-000	—	—	024-24775-000	—	—	024-24982-000	024-24982-000	—	—
	P	1	—	024-24775-000	—	—	024-24775-000	024-24775-000	—	024-24775-000	024-24775-000	—	024-24775-000
		2	—	024-24775-000	—	—	024-24775-000	—	—	024-24775-000	024-24775-000	—	024-24775-000
-58	A	1	024-24775-000	—	024-24775-000	—	—	—	024-24982-000	024-24982-000	—	—	—
		2	024-24775-000	—	024-24775-000	—	—	—	024-24982-000	024-24982-000	—	—	—
	P	1	024-24775-000	—	024-24775-000	—	—	—	024-24775-000	024-24775-000	—	—	—
		2	024-24775-000	—	024-24775-000	—	—	—	024-24775-000	024-24775-000	—	—	—
-64	A	1	—	024-24775-000	—	—	024-24775-000	024-24775-000	—	024-24982-000	024-24982-000	—	—
		2	—	024-24775-000	—	—	024-24775-000	—	—	024-24982-000	024-24982-000	—	—
	P	1	—	024-24775-000	—	—	024-24775-000	024-24775-000	—	024-24775-000	024-24775-000	—	024-24775-000
		2	—	024-24775-000	—	—	024-24775-000	—	—	024-24775-000	024-24775-000	—	024-24775-000

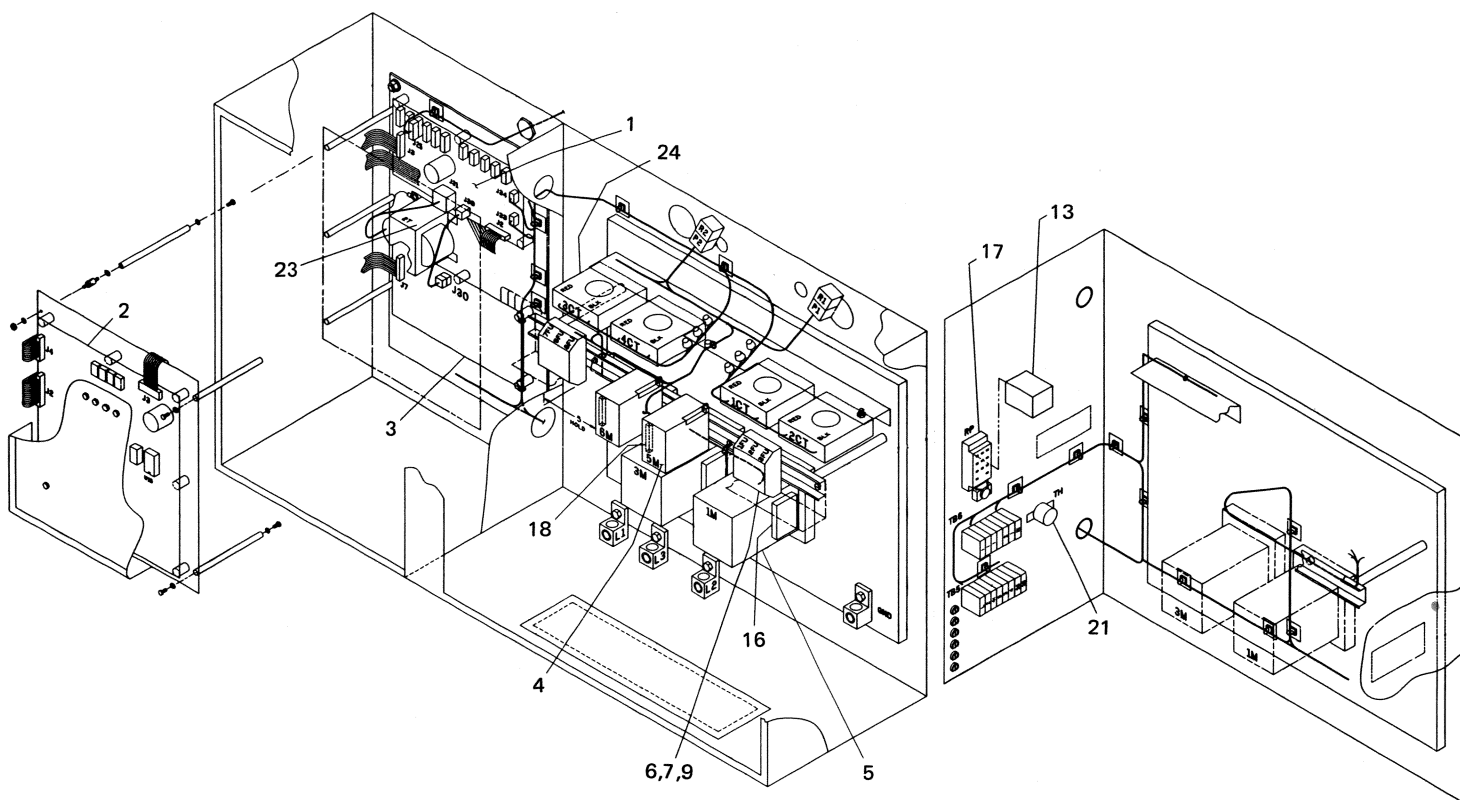
NOTES: ^s = Recommended Stock Spare Parts

P = Part Winding

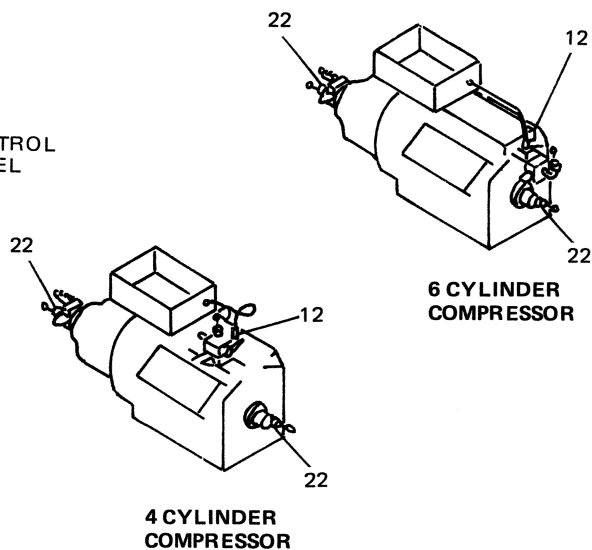
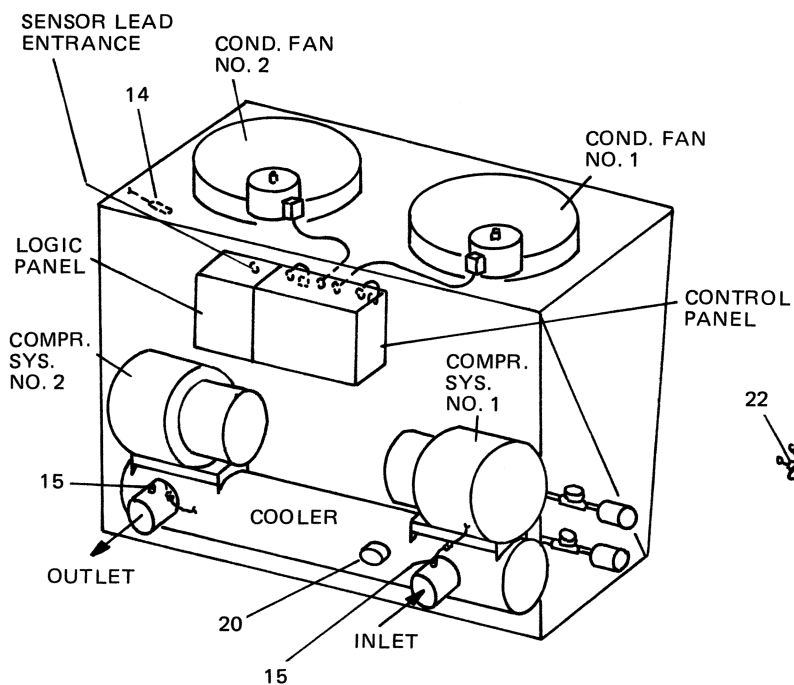
Part Winding (start) compressors require two (2) contactors per compressor (system).

A = Across-the-line

Across-the-line (start) compressors require one (1) contactor per compressor (system).



CONTROL PANEL SHOWN IS FOR ACROSS-THE-LINE STARTING



CONTROL COMPONENTS

ITEM NO.	QUAN. PER UNIT	DESCRIPTION	VOLT. CODE	TYPE START	ALL MODELS	UNIT MODEL				
						60	50	60	50	60
^{s1}	1	CIRCUIT BOARD ASSEMBLIES Power Supply/Analog (Combo Bd)	ALL	—	031-00915C000	YCAZ33JD3	YCAZ44LD3	YCAZ47LE3	YCAZ77LE3	YCAZ88ME3
^{s2}	1	Micrologic Board	ALL	—	031-00805E000	YCAZ33JD2	YCAZ44JD2	YCAZ47LD3	YCAZ77LE2	YCAZ88ME2
^{s3}	1	Relay Output Circuit Board	ALL	—	031-00769C000					
^{s4}	2	Contactor, Fan	ALL	—	024-24777-000					
5	See p.3	Contactor, Compressor	See p.3	See p.3	See Pg. 3					
		FUSES								
^{s6}	2	Micro Panel Ckt. (5 Amp), FU8,9	ALL	—	025-27922-000					
^{s7}	1	Control Ckt. (15 Amp), FU7	ALL	—	025-25584-000					
^{s8*}	3	Fan Contact. Ckt. (25 Amp), FU1-3	ALL	A	025-27509-015					
^{s9}	3	Fan Contact. Ckt. (25 Amp), FU4-6	Ap.	P	025-27509-015					
10*	3	Fuse Block	ALL	A						
11*	2	Fuse Block	Ap.	P						
^{s12}	2	High Pressure Cutout	ALL	—	025-28398-000					
^{s13}	1	Relay (Run Permissive)	ALL	—	025-27509-010					
		SENSORS								
^{s14}	1	Outside Air Temp. (OAT)	ALL	—	025-27509B100					
^{s15}	2	Water Temp. (LWT, RWT)	ALL	—	025-25195-000					
^{s16}		SUPPRESSORS (Arc with Varistor) For Compressor Contactor								
—	—		-17	A		031-00958-000	031-00959-000	031-00959-000	031-00959-000	031-00959-000
4	—		P							
—	—		-28	A		031-00958-000	031-00958-000	031-00959-000	031-00959-000	031-00959-000
4	—		P							
2	—		-40	A		031-00958-000	031-00958-000	031-00958-000	031-00958-000	031-00958-000
4	—		P			031-00958-000	031-00958-000	031-00958-000	031-00958-000	031-00958-000
2	—		-46	A		031-00958-000	031-00958-000	031-00959-000	031-00959-000	031-00959-000
4	—		P			031-00958-000	031-00958-000	031-00958-000	031-00958-000	031-00958-000
2	—		-50	A		031-00958-000	031-00958-000	031-00959-000	031-00959-000	031-00959-000
4	—		P			031-00958-000	031-00958-000	031-00958-000	031-00958-000	031-00958-000
2	—		-58	A		031-00958-000	031-00958-000	031-00959-000	031-00959-000	031-00959-000
4	—		P			031-00958-000	031-00958-000	031-00958-000	031-00958-000	031-00958-000
2	—		-64	A		031-00958-000	031-00958-000	031-00959-000	031-00959-000	031-00959-000
4	—		P			031-00958-000	031-00958-000	031-00958-000	031-00958-000	031-00958-000
^{s17}	1	Suppressor, Run Permissive Relay	ALL	—	025-27509A016					
^{s18}	2	Suppressor, Fan Contactors	ALL	—	031-00960-000					
^{s19}	6	Suppressor, Compr. Loading Sol. & Heaters & Liquid Line Solenoid	ALL	—	031-00927-000					
^{s20}	1	Suppressor, Cooler Heater	ALL	—	031-00927-000					
21	1	Thermostat (Cooler Heater), TH	ALL	—	025-17622C000					
^{s22}	4	Transducer (Oil & Suct. Press.)	ALL	—	025-25927-000					
23	1	Transformer (Micro Panel), 2T	ALL	—	025-27509B009					
24	4	Transformer (Current)	ALL	—	025-27408-000					
25	2	Module, Motor Protector	ALL	—	025-27522-000					

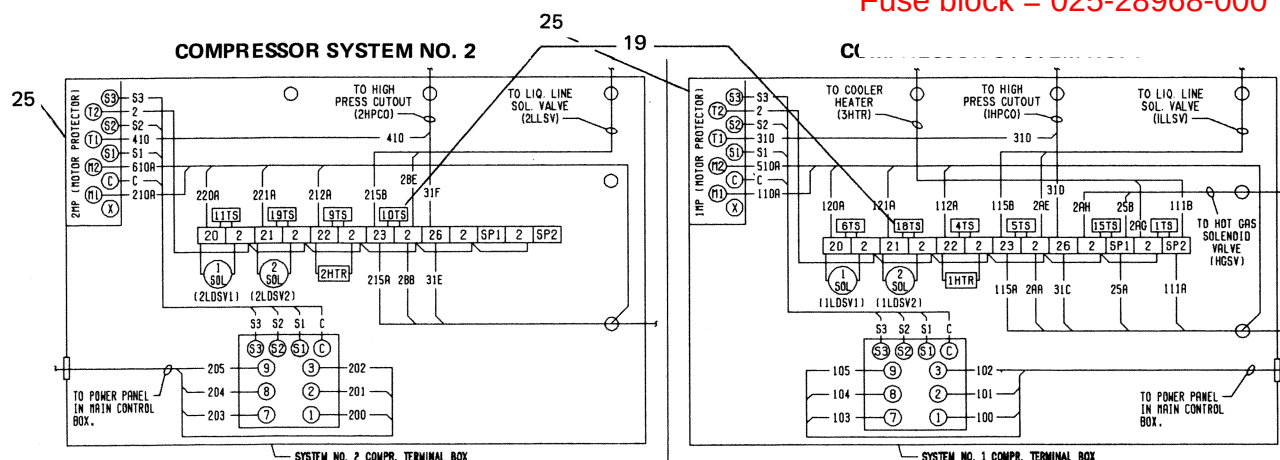
Overload 4-6.3 amps
DAA 25825

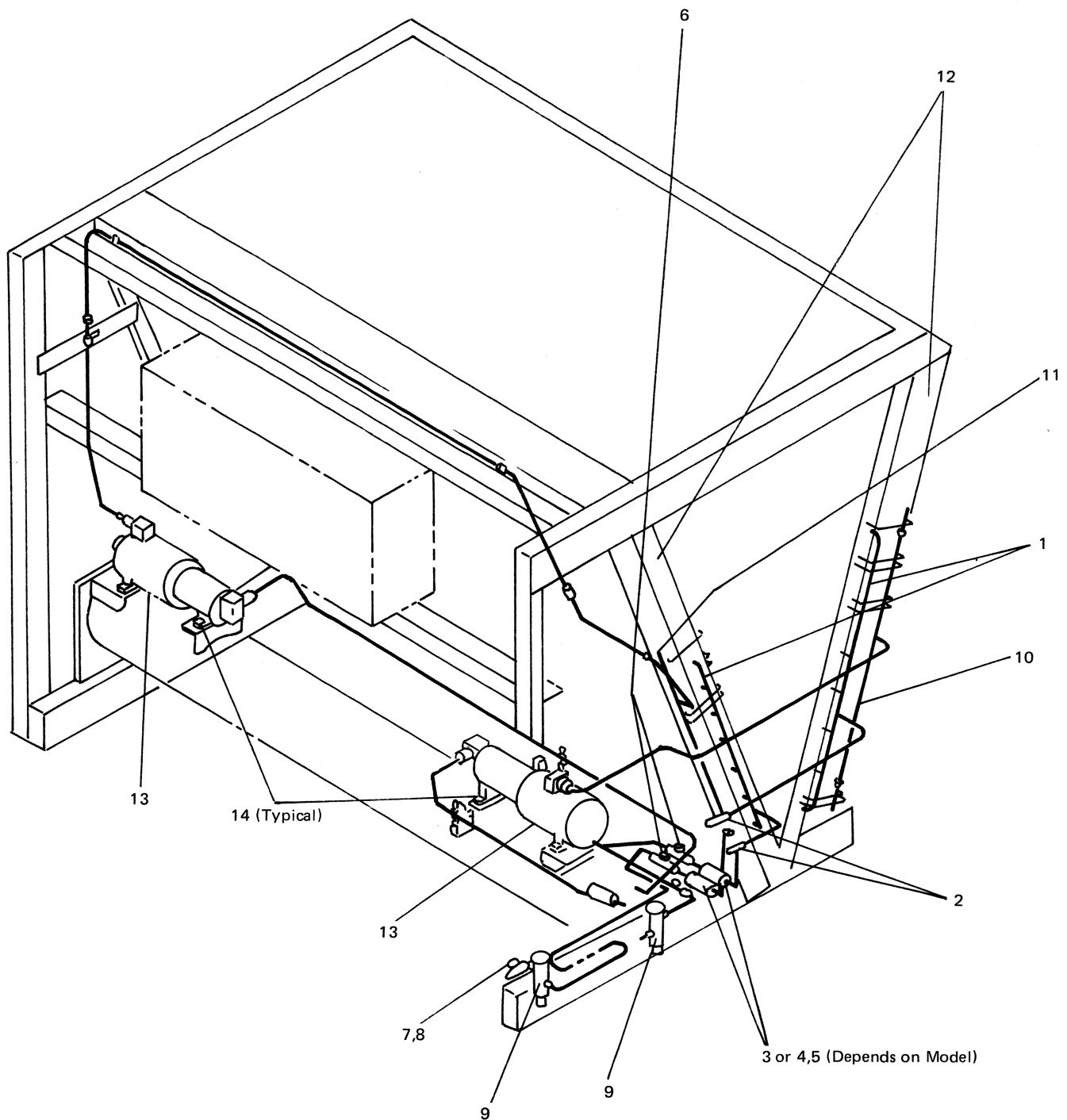
LWT = 371-01226-241
EWT = 371-01226-242

TYPE START — P = Part Winding
A = Across-the-Line
Ap = Applicable to Part Wind only

^s Recommended Stock Spare Parts
* Not Shown

Part Wind
Fuse 2.5 amp = 025-27509-015
Fuse block = 025-28968-000



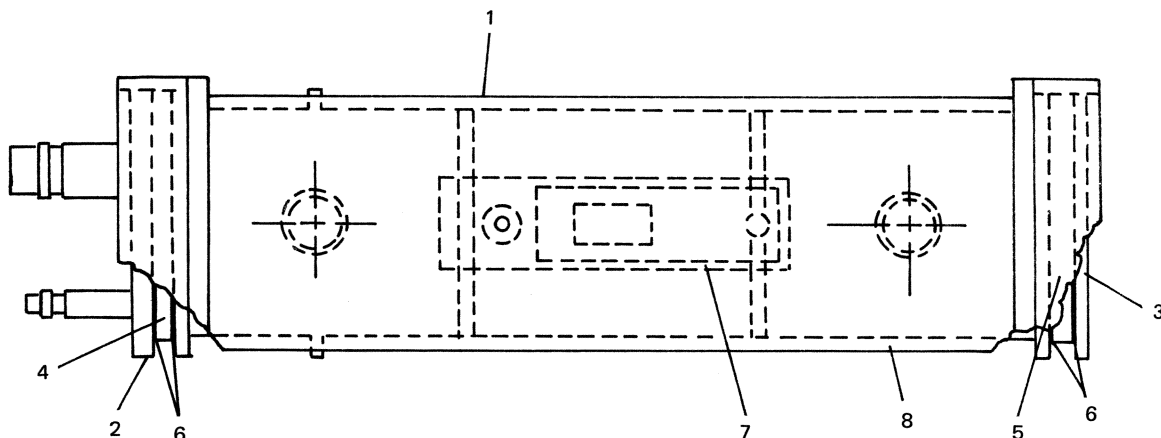


UNIT COMPONENTS

ITEM NO.	QUAN. PER UNIT	DESCRIPTION	HZ	UNIT MODEL				
			60	YCAZ33JD3	YCAZ44LD3	YCAZ47LE3	YCAZ77LE3	YCAZ88ME3
			50	YCAZ33JD2	YCAZ44JD2	YCAZ47LD2	YCAZ77LE2	YCAZ88ME2
1	2	Header, Liquid		366-94438	366-94438	366-93928	366-93928	366-93928
2	2	Valve, Liquid Stop		025-10510	025-10510	025-10510	025-10510	025-10510
^s 3	2	Dehydrator, Body (Permanent Core)		026-20145	026-20145	—	—	—
4	2	Dehydrator, Body (Replaceable Core)		—	—	026-30598	026-30598	026-30598
^s 5	4	Dehydrator, Core (Use with Item 4)		—	—	026-18328	026-18328	026-18328
6	2	Valve, Liquid Solenoid		025-17513	025-17513	025-17513	025-17513	025-17513
7	2	Moisture Indicator, Body		026-16957	026-16957	026-16957	026-16957	026-16957
8	2	Moisture Indicator, Cap Assembly		026-16958	026-16958	026-16958	026-16958	026-16958
^s 9	2	Valve, Thermal Expansion		025-21954	025-23211	025-23211	025-23211	025-23211
10	1	Header, Discharge (R.H.)		366-94436	366-94436	366-93926	366-93926	366-93926
11	1	Header, Discharge (L.H.)		366-94437	366-94437	366-93926	366-93926	366-93926
12a	VARIES	Coil, Condenser (Al fins - Standard)		026-30479	026-30479	026-30479	026-30479	026-30479
12b	WITH	Coil, Condenser (Cu fins - Optional)		026-31564	026-31564	026-31564	026-31564	026-31564
	UNIT	No. Condenser Coils per Unit		4	4	6	6	6
13	2	Compressor		*	*	*	*	*
14	16	Pad, Isolator		075-00820	075-00820	075-00820	075-00820	075-00820

* See Page 2

^s Recommended Stock Spare Part



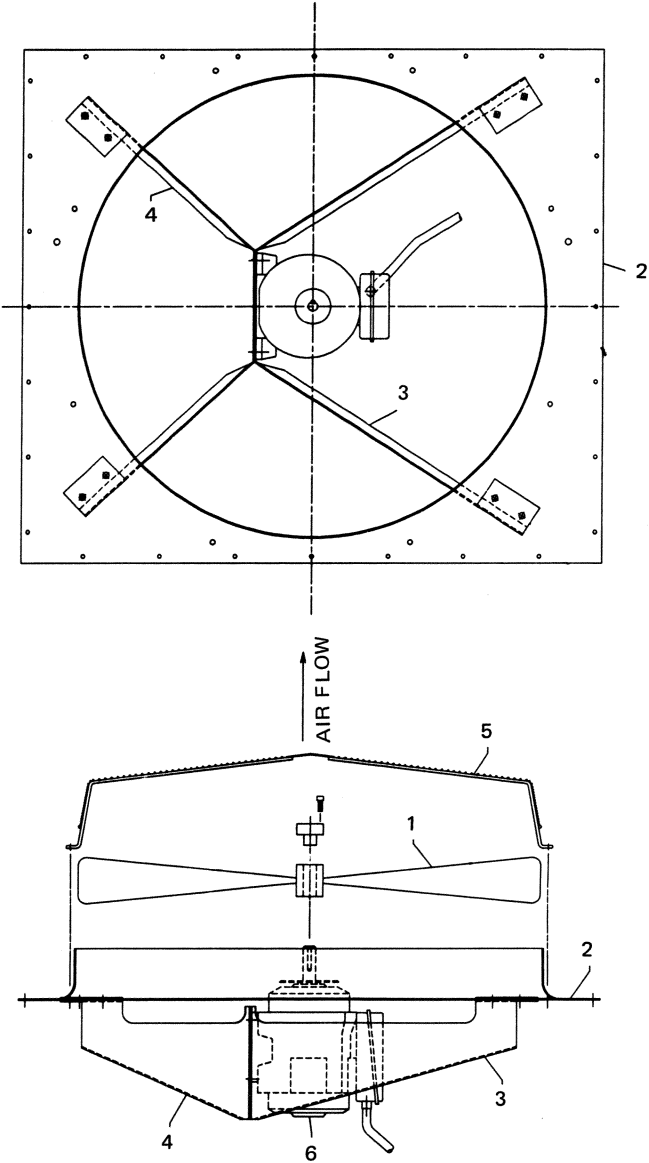
ITEM NO.	QUAN. PER UNIT	DESCRIPTION	HZ	UNIT MODEL				
			60	YCAZ33JD3	YCAZ44LD3	YCAZ47LE3	YCAZ77LE3	YCAZ88ME3
			50	YCAZ33JD2	YCAZ44JD2	YCAZ47LD2	YCAZ77LE2	YCAZ88ME2
1	1	Cooler, Less Insulation & Heater (Includes items 2-6)	375-00494	375-00472	375-00472	375-00472	375-01546	
2	1	Head, Connection End	366-93980	366-93960	366-93960	366-93960	366-93090	
3	1	Head, Back End	366-87608	366-55335	366-55335	366-55335	366-87740	
4	1	Baffle, Pass, Connection End	066-93969	066-93569	066-93569	066-93569	066-93085	
5	1	Baffle, Pass, Back End	066-93968	066-93570	066-93570	066-93570	066-93084	
^s 6 ⁺	4	Gasket, Pass Baffle and Head	066-93970	066-93573	066-93573	066-93573	066-93083	
^s 7	1	Heater, Cooler	025-22691	025-22691	025-22691	025-22691	025-22692	
8	3	Insulation: 3/4" x 42" x 68"	010-04198	010-04198	010-04198	010-04198	010-04198	

⁺ When replacing gasket, Item 6, use:

^s Sealer, Gasket, ~~031-02827~~ **Sealer, Gasket 013-02827**

^s Primer, ~~031-01753~~ **Primer 013-01753**

^s Recommended Stock Spare Parts



ITEM NO.	DESCRIPTION		PART NUMBER
^s 1	Blade	60 Hz 026-30581-000	026-30582-000 50Hz
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	024-25247-002
		-40	024-25247-001
		-46	024-25247-001
		-50	024-24604-000
		-58	024-25252-000
		-64	024-24604-000

^s Recommended Stock Spare Part

COMPONENTS FOR UNIT OPTIONS

ITEM NO.	QUAN. PER UNIT	DESCRIPTION	VOLTAGE CODE	ALL MODELS
A	1	Power Disconnect Switch (PDS)	-17	
			-28	
			-40	
			-46	
			-50	
			-58	
			-64	
B	1	Control Transformer (1T)	-17	025-27930-000
			-28	025-27929-000
			-40	025-27931-000
			-46	025-27929-000
			-50	025-27931-000
			-58	025-27932-000
			-64	—
C	2*	Transducer Discharge Pressure	ALL	025-28938-000
D	2*	Isolator, Transducer (Use With Item No. "C")	ALL	026-30229-000
		Dual Unit Sequence		
E	1	Control, Temperature	ALL	025-15154-000
F	1	Relay	ALL	024-19286-002
G	1	Toggle Switch	ALL	024-14057-000
H	1	Flow Switch (FLSW)	ALL	024-15793-000
		Loadminder		
I	1	Valve, Regulator, Hot Gas (HGSV)	ALL	025-27647-000
J	1	Varistor Suppressor	ALL	031-00927-000
		Low Ambient		
K	2*	Transducer, Pressure	ALL	025-28938-000
L	2*	Isolator, Transducer (Use With Item No. "K")	ALL	026-30229-000
M	1	Contact, Fan	ALL	024-24777-000
N	1	Suppressor, Transient	ALL	031-00960-000

* One (1) Required Per Compressor

HZ	UNIT MODEL									
60	YCAZ33JD3		YCAZ44LD3		YCAZ47LE3		YCAZ77LE3		YCAZ88ME3	
50		YCAZ33JD2		YCAZ44JD2		YCAZ47LD2		YCAZ77LE2		YCAZ88ME2
	025-27646 -001	—	025-27646 -001	—	025-27646 -001	—	025-27646 -002	—	025-27646 -002	—
	025-27646 -001	—	025-27646 -001	—	025-27646 -001	—	025-27646 -001	—	025-27646 -002	—
	025-27646 -004	—	025-27646 -004	—	025-27646 -004	—	025-27646 -005	—	025-27646 -005	—
	025-27646 -004	—	025-27646 -004	—	025-27646 -004	—	025-27646 -004	—	025-27646 -005	—
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	—	025-27646 -004	—	025-27646 -004	—	025-27646 -004	—	025-27646 -004	—	025-27646 -005

Cable from Oil Pressure Trans
to Panel System #2

031-00933-720 Disch #1

031-00933-721 Suct #1

031-00933-722 Suct #2

031-00933-723 Oil #1

031-00933-725 Disch #2

031-00933-726 Water Sensor

031-00933-727 Water Sensor



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