



FILE INFORMATION
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PRODUCTS
PRODUCT TAB - RECIPROCATING COMPRESSOR-
CONDENSING UNITS
MODEL TAB - HERMETIC E-F
LITERATURE ITEM - Unit Parts

LITERATURE FILE NO.

HCOM-UP-50

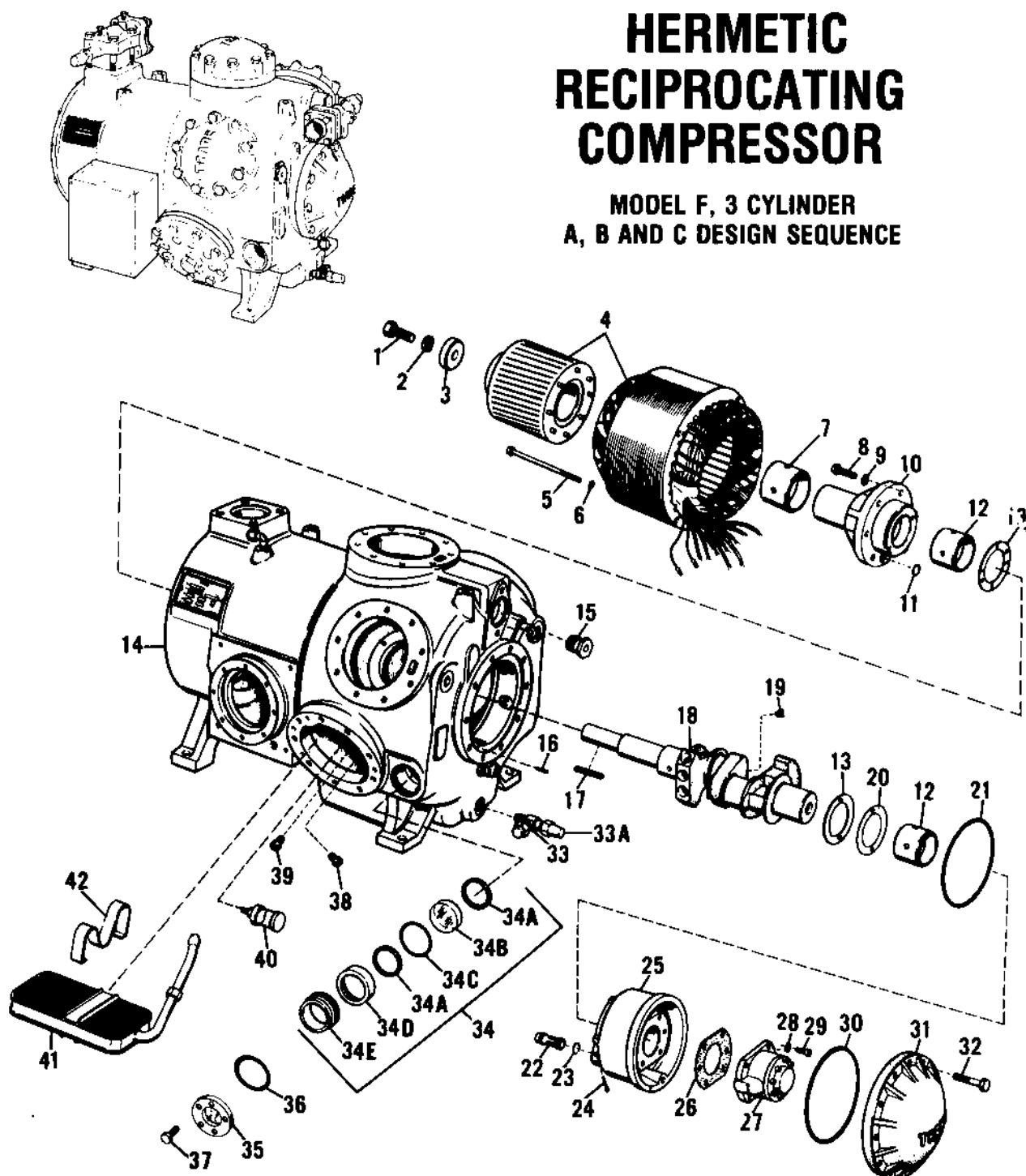
UNIT PARTS

Since The Trane Company has a policy of continuous product improvement, it reserves the right to change specifications and design without notice. The installation and servicing of the equipment referred to in this booklet should be done by qualified experienced technicians.

NOVEMBER, 1981
Supersedes HCOM-UP-50
Dated November, 1979

HERMETIC RECIPROCATING COMPRESSOR

MODEL F, 3 CYLINDER
A, B AND C DESIGN SEQUENCE

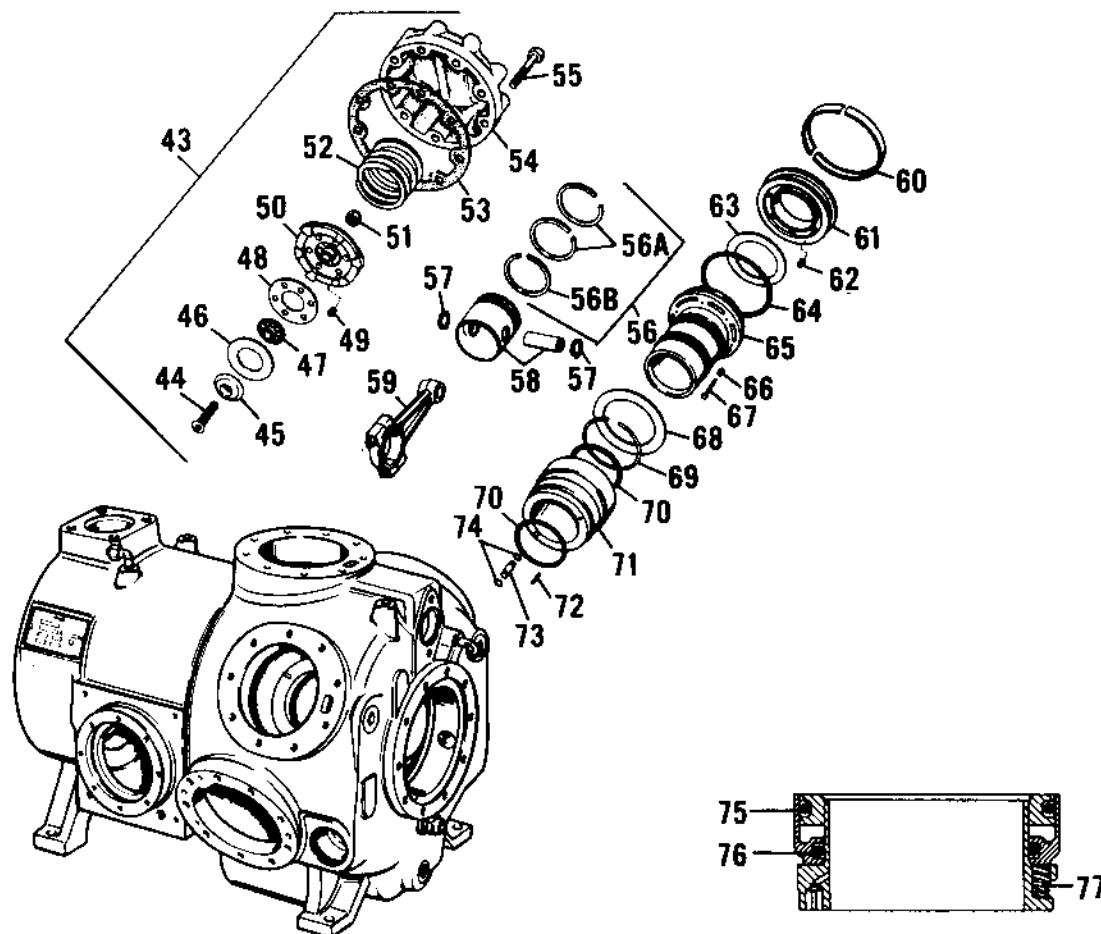


REF. NO.	PART NAME AND DESCRIPTION	PART NO.	NO. REQ.
1	Screw - Cap, Socket Head, 5/8-18 x 2-1/2 -----	SCR-207	1
2	Lockwasher, 5/8" -----	WAS-2	1
3	Washer - Retaining -----	WAS-98	1
4	Motor - Hermetic -----	***	1
5	Screw - Cap, 12 Pt. Hd., 1/4-28 x 6-1/2 -----	SCR-417	4
6	Lockwasher, 1/4 -----	WAS-8	4
7	Bearing Insert -----	BRG-80	1
8	Screw - Cap, 12 Pt. Hd., 3/8-24 x 1-1/2 -----	SCR-40	6
9	Lockwasher, 3/8" -----	WAS-13	6
10	Bearing Head Assembly, Motor End, Including 1 Ea. of Ref. Numbers 7 And 12 -----	BRG-79	1
11	"O" Ring -----	RNG-79	1
12	Bearing Insert -----	BRG-65	2
13	Bearing - Thrust -----	BRG-62	2
14	Housing -----	HUS-175**	1
15	Valve - Relief -----	VAL-193	1
16	Pin - Roll, 1/8" x 1/2" -----	PIN-26	2
17	Key - Crankshaft -----	KEY-2	1
18	Crankshaft, With Magnetic Plugs -----	CSF-23	1
19	Plug - Magnetic -----	PLU-10	2
20	Shim - Bearing Head, .020" -----	SHM-25	*
20	Shim - Bearing Head, .010" -----	SHM-26	*
20	Shim - Bearing Head, .005" -----	SHM-34	*
21	"O" Ring - Bearing Head to Housing -----	RNG-127	1
22	Valve - Oil Relief -----	VAL-138	1
23	"O" Ring - Oil Relief Valve -----	RNG-69	1
24	Pin - Cotter -----	PIN-27	1
25	Bearing Head Assembly, Pump End, Including 1 Ea. Ref. Numbers 12, 22, 23 And 24 -----	BRG-78	1
26	Gasket - Oil Pump -----	GKT-251	1
27	Pump - Oil -----	PMP-14	1
28	Lockwasher, 5/16 -----	WAS-14	4
29	Screw - Cap, 12 Pt. Hd., 5/16-24 x 3/4 -----	SCR-167	4
30	"O" Ring - Oil Pump Cover To Housing -----	RNG-128	1
31	Cover - Oil Pump -----	COV-172	1
32	Screw - Cap, Hex Hd., 7/16-14 x 1-1/2 -----	SCR-160	10
33	Valve - Angle, 3/8" Flare x 3/8" N.P.T. -----	VAL-31	1
33A	Nut - Cap, Angle Valve -----	NUT-16	1
34	Kit - Sight Glass Assembly, Complete (A Design Sequence) ---- Consisting of: 34A, 34B, 34C, 34D, 34E	KIT-12	1
34A	Gasket - Sight Glass -----	GKT-51	2
34B	Sight Glass -----	GLS-4	1
34C	"O" Ring - Sight Glass -----	RNG-58	1
34D	Bushing - Sight Glass -----	BUS-28	1
34E	Nut - Sight Glass -----	NUT-62	1
35	Glass - Sight (B Design Sequence) -----	GLS-30	1
36	"O" Ring - Sight Glass (B Design Sequence) -----	RNG-818	1
37	Screw - Cap, Hex Hd., 1/4-20 x 5/8 (B Design Sequence) -----	SCR-38	3
38	Valve - Oil Check -----	VAL-60	1
39	Valve - Oil Check -----	VAL-55	2
40	Breaker - Foam -----	BKR-4	2
41	Strainer - Oil -----	SRA-30	1
42	Spring - Retaining -----	SPG-30	1

*As Required.

**When Ordering New Housing For "A" Sequence Compressors, Also Order New "B" Design Sequence Sight Glass Parts, Ref. No.'s. 35, 36 & 37.

***Select Part Number From Service Bulletin HCOM-SB-7A.



REF. NO.	PART NAME AND DESCRIPTION	PART NO.	NO. REQ.
43	Discharge Valve Assembly ----- Consisting Of:	VAL-1610	3
44	Bolt - Valve Cage -----	BLT-64	3
45	Seat - Discharge Valve -----	SET-7	3
46	Valve - Discharge -----	VAL-195	3
47	Retainer - Cushion -----	RTR-9*	3
48	Cushion - Valve -----	CUS-10*	3
49	Spring - Discharge Valve -----	SPG-4	18
50	Cage - Valve -----	CAG-34	3
51	Nut - Valve Cage Bolt -----	NUT-72	3
52	Spring - Cylinder -----	SPG-39	3
53	Gasket - Cylinder Head -----	GKT-248	3
54	Head - Cylinder -----	HD-18	3
55	Screw - Cap, Hex Hd., 7/16-14 x 2-1/2 -----	SCR-44	27
56	Piston Ring Kit ----- Consisting Of: 56A (2) and 56B (1)	RNG-78	3
56A	Ring - Compression -----	RNG-95	6
56B	Ring - Oil -----	RNG-96	3

* RTR-9 and CUS-10 will continue to be available for previous design discharge valve assembly (VAL-666) on an "as needed" basis.

#47 and #48 "A" - "B" Design Only

Parts List Continued

REF. NO.	PART NAME AND DESCRIPTION	PART NO.	NO. REQ.
57	Ring - Retaining -----	RNG-97	6
58	Piston, Including Pin And Retaining Rings -----	PST-20	3
59	Rod - Connecting -----	ROD-37	3
60	Ring - Retaining -----	RNG-98	9
61	Plate - Valve (Standard Lift Valves) -----	PLT-107	3
61	Plate - Valve (Low Lift Valves) -----	PLT-126	3
62	Spring - Valve (Standard Lift Valves) -----	SPG-37	18
62	Spring - Valve (Low Lift Valves) -----	SPG-37	9
63	Valve - Suction -----	VAL-194	3
64	"O" Ring - Suction Valve Plate -----	RNG-99	3
65	Liner - Cylinder -----	LNR-20	3
66	Spring - Lift Pin -----	SPG-38	12
67	Pin - Lift -----	PIN-24	12
68	Ring - Take-Up -----	RNG-100	2
69	Ring - Retaining -----	RNG-101	2
70	"O" Ring - Cylinder Liner to Unloader -----	RNG-102	4
71	Unloader Assembly -----	UNL-4	2
72	Pin - Roll, 3/16" x 1" -----	PIN-4	2
73	Connector - Oil -----	CON-1	2
74	"O" Ring - Oil Connector -----	RNG-10	4
75	"O" Ring - Unloader Seal Ring -----	RNG-103	2
76	"O" Ring - Unloader Piston -----	RNG-53	2
77	Spring - Unloader Piston -----	SPG-23	28
*	Kit - Cylinder "O" Ring -----	KIT-40	3
	Consisting of:		
	"O" Ring - Suction Valve Plate (1 Each Ref. No. 63) -----	RNG-99	
	"O" Ring - Unloader Seal Ring (1 Each Ref. No. 74) -----	RNG-103	
	"O" Ring - Unloader Piston (1 Each Ref. No. 75) -----	RNG-53	
	"O" Ring - Cylinder Liner (2 Each Ref. No. 69) -----	RNG-102	
	"O" Ring - Oil Connector (2 Each Ref. No. 73) -----	RNG-10	
*	Kit - Compressor Gasket And "O" Ring -----	KIT-52+	1

*Not Illustrated.

+Consists of 1 Ea. RNG-79, RNG-127, RNG-69, GKT-251, RNG-128, RNG-58, GKT-250, GKT-24, RNG-61, GKT-280, RNG-91, RNG-163, GKT-14, GKT-272, RNG-818, GKT-29; 2 Ea. GKT-51, GKT-249; 3 Ea. SHM-25, SHM-26, GKT-248, SHM-34; 6 Ea. RNG-38; 9 Ea. RNG-37. One KIT-52 And Three KIT-40 Are Required For Complete Compressor Overhaul.

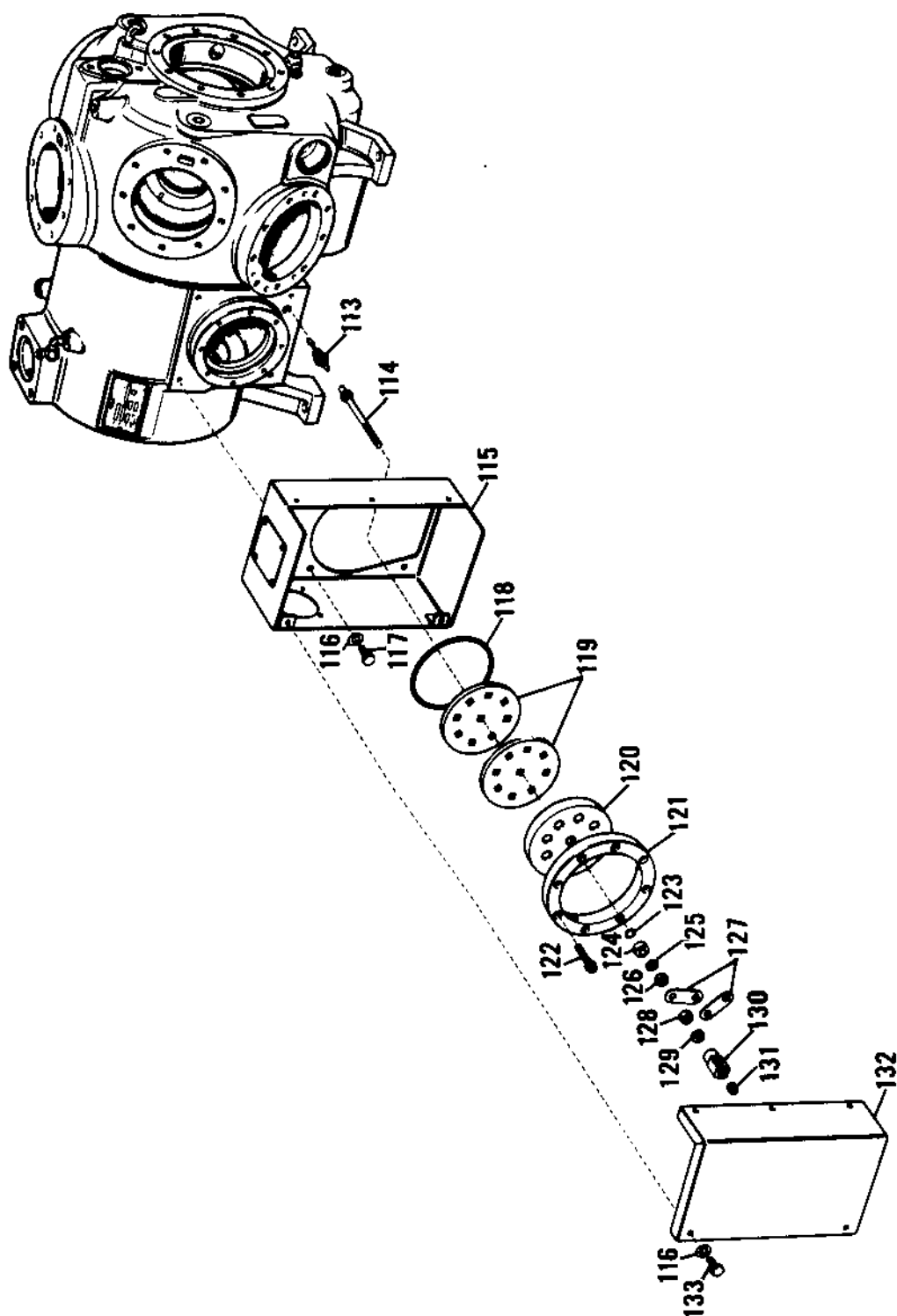
REF. NO.	PART NAME AND DESCRIPTION	PART NO.	NO. REQ.
77A	Crankcase Heater -----	HTR-210	1
78	Screw - Cap, Hex Hd., 7/16-14 x 1-3/4 -----	SCR-67	9*
79	Cover - Handhole -----	COV-149	1
80	Gasket - Handhole Cover -----	GKT-249	1*
81	Cover - Suction Handhole, Assembly -----	COV-558	1
	Consisting of:		
82	Screw - Cap, 12 Pt. Hd., 3/8-24 x 1-3/4 -----	SCR-46	7
83	Lockwasher, 3/8 -----	WAS-17	7
84	Capacity Control Assembly, Complete, Includes Ref. No's. 84A-E -----		
84A	Bellows Assembly, Includes Bellows Stop Sleeve -----	CNT-4	1
84B	"O" Ring - Capacity Control -----	BEL-2	1
84C	Gasket - Capacity Control -----	RNG-61	1
84D	Spring - Bellows, Green (For R-22 Units) -----	GKT-24	1
84D	Spring - Bellows, Black (For R-12 Units) -----	SPG-42	1
84E	Seat - Spring -----	SPG-43	1
85	Gasket - Handhole Cover -----	SET-9	1
86	Plate - Distributor -----	GKT-249	2
87	Screen - Strainer -----	PLT-108	1
88	Gasket - Distributor -----	SRN-12	1
89	Cover - Control Handhole -----	GKT-250	1
89A	Cover - Control Handhole -----	COV-178	1
90	Screw (Used Only on Actuator Control Handhole Cover Assembly With External Removable Bellows Spring) -----	See Note 1	1
91	Screw - Bellows Adjusting -----	SCR-210	1
92	Gasket - Bellows Adjusting Screw -----	SCR-47	1
93	Plug - Bellows Adjusting Screw -----	GKT-29	1
97	Screw - Cap, Hex Hd., 5/16-18 x 7/8 -----	PLU-13	1
98	Guard Plate -----	SCR-31	2
99	Valve - Solenoid, 3-Way, 230 Volt, 50-60 Cycle, Asco No. 831551 -----	GRD-38	1
99	Valve - Solenoid, 3-Way, 115 Volt, 50-60 Cycle, Asco No. 831551 -----	VAL-669	2
100	Coil - Solenoid Valve, Asco No. 64-982-5, 230 Volt, 50-60 Cycle -----	VAL-670	2
100	Coil - Solenoid Valve, Asco No. 64-982-4, 115 Volt, 50-60 Cycle -----	COL-65	2
101	"O" Ring - Solenoid Valve Mounting -----	COL-70	2
102	Cover - Control Handhole -----	RNG-38	6
103	Screen - Strainer -----	COV-177	1
104	Gasket - Distributor -----	SRN-12	1
105	Plate - Distributor -----	GKT-280	1
106	Screw - Cap, 12 Pt. Hd., 3/8-24 x 1-3/4 -----	PLT-127	1
107	Lockwasher, 3/8 -----	SCR-46	2
108	Cover - Control Handhole -----	WAS-17	2
109	Plate - Distributor -----	COV-153	1
110	Lockwasher, 3/8 -----	PLT-110	1
111	Screw - Cap, 12 Pt. Hd., 3/8-24 x 1 -----	WAS-17	7
112	Plug - Pipe, Hex Hd., 1/8 NPT -----	SCR-168	7
**	Valve - Remote Solenoid, Asco 3-Way, 230 Volt, 60 Cycle -----	PLU-20	3
**	Coil - Remote Solenoid Valve, Asco No. 27-462-2, 230 Volt, 60 Cycle -----	VAL-543	1
		C-38	1

* Per Cover.

** Not Illustrated.

NOTE 1: Obsolete. For Replacement Order Ref. No.

85, 92, 90, 89, 88, 84C, 84B.



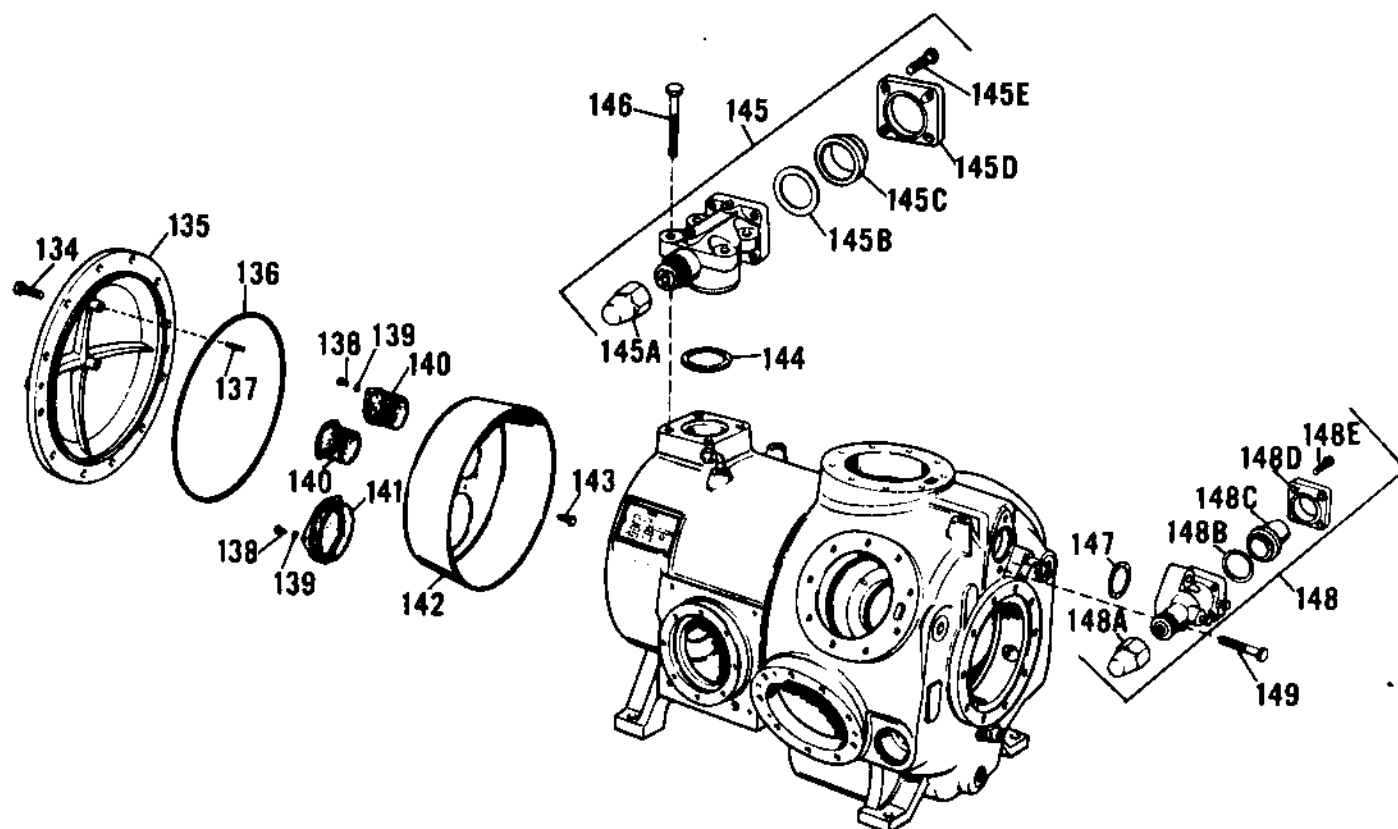
See Following Page
For Parts List

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For Illustration

REF. NO.	PART NAME AND DESCRIPTION	PART NO.	NO. REQ.
113	Terminal - Hermetic -----	TER-8	3
114	Terminal Stud -----	TER-7	**
115	Box - Junction -----	BOX-36	1
116	Lockwasher, 5/16 -----	WAS-110	8
117	Screw - Cap, Hex Hd., 5/16-18 x 5/8 -----	SCR-162	4
118	"O" Ring -----	RNG-91	1
119	Plate - Locating -----	PLT-129	2
120	Plate - Terminal, 6 Holes (Single Voltage Units) -----	PLT-225	1
120	Plate - Terminal, 9 Holes (Dual Voltage Units) -----	PLT-128	1
121	Ring - Retaining -----	RNG-126	1
122	Screw - Cap, 12 Pt. Hd., 1/4-28 x 7/8 -----	SCR-200	8
123	"O" Ring -----	RNG-37	**
124	Spacer - Sealing -----	SPC-8	**
125	Washer -----	WAS-97	**
126	Nut - Hex, 1/4-20 -----	NUT-132	**
127	Buss Bar -----	BAR-2	*
127	Buss Bar -----	BAR-3	1
128	Nut - Hex, 1/4-20 -----	NUT-76	**
129	Nut -----	NUT-77	6
130	Terminal Lug -----	LUG-2	6
131	Screw - Set, Hex Soc. Hd., 1/4-20 x 3/8 -----	SCR-209	6
132	Cover - Junction Box -----	COV-179	1
133	Screw - Cap, Hex Hd., 5/16-18 x 1/2 -----	SCR-97	4

*Single Voltage Units Use 2, Dual Voltage Units Use 4.

**Single Voltage Units Use 6, Dual Voltage Units Use 9.



See Following Page
For Parts List

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For Illustration

REF. NO.	PART NAME AND DESCRIPTION	PART NO.	NO. REQ.
134	Screw - Cap, Hex Hd., 7/16-14 x 1-1/4 -----	SCR-233	12
135	Cover - Suction -----	COV-166	1
136	"O" Ring - Suction Cover -----	RNG-163	1
137	Pin - Roll, 3/16" x 1" -----	PIN-4	1
138	Screw - Round Hd., No. 10-32 x 3/8 -----	SCR-64	7
139	Lockwasher - Steel, No. 10 -----	WAS-18	7
140	Strainer - Suction Gas -----	SRA-29	2
141	Filter - Oil -----	FLR-45	1
142	Pan - Suction Strainer -----	PAN-51	1
143	Screw - Cap, Hex Soc. Hd., 1/4-28 x 1/2 -----	SCR-177	1
144	Gasket - Suction Service Valve -----	GKT-14	1
145	Valve - Suction Service, 1-5/8" O.D.S. -----	VAL-8	1
	Consisting of: 145A, 145B, 145C, 145D, 145E		
145A	Cap -----	CAP-5+	1
145B	Gasket -----	GKT-33+	1
145C	Adapter -----	ADT-9+	1
145D	Flange -----	FLG-4+	1
145E	Screw -----	SCR-52+	4
146	Screw - Cap, Hex Hd., 5/8-11 x 4 -----	SCR-317	4
147	Gasket - Discharge Service Valve -----	GKT-272	1
148	Valve - Discharge Service, 1-1/8" O.D.S. -----	VAL-59	1
	Consisting of: 148A, 148B, 148C, 148D, 148E		
148A	Cap -----	CAP-15+	1
148B	Gasket -----	GKT-65+	1
148C	Adapter -----	ADP-14+	1
148D	Flange -----	FLG-10+	1
148E	Screw -----	SCR-77+	4
149	Screw - Cap, Hex Hd., 1/2-13 x 2 -----	SCR-11	2

+Specify Valve Manufacturer - M.B. (Mueller Brass Co.),
H.V. (Henry Valve Co.), Metrix.

RECOMMENDED SPARE PARTS LIST

REF. NO.	PART NAME AND DESCRIPTION	PART NUMBER	QUANTITY	
			1 UNIT	10 UNITS
7	Bearing Insert -----	BRG-80	1	4
10	Motor End Bearing Head, Including Inserts -----	BRG-79	1	2
12	Bearing Insert -----	BRG-65	1	4
13	Thrust Bearing -----	BRG-62	2	4
15	Relief Valve -----	VAL-193	1	1
18	Crankshaft, Including Magnetic Plugs -----	CSF-23	-	1
22	Oil Relief Valve -----	VAL-138	1	2
23	Relief Valve "O" Ring -----	RNG-69	2	6
25	Pump End Bearing Head, Including 1 Ea. Ref. No's. 12, 22, 23 and 24 -----	BRG-78	1	2
27	Oil Pump -----	PMP-14	1	2
34	Sight Glass Kit (A Design Sequence) -----	KIT-12	1	2
35	Glass - Sight (B Design Sequence) -----	GLS-30	1	2
36	"O" Ring - Sight Glass (B Design Sequence) -----	RNG-818	1	2
46	Discharge Valve -----	VAL-195	1	3
48	Valve Cushion -----	CUS-10	1	3
49	Discharge Valve Springs -----	SPG-4	1 Set	3 Sets
56	Piston Ring Kit -----	RNG-78	1 Set	2 Sets
58	Piston, Including Pin and Retaining Rings -----	PST-20	-	1 Set
59	Connecting Rod -----	ROD-37	1 Set	1 Set
60	Retaining Rings -----	RNG-98	1 Set	1 Set
61	Valve Plate (Standard Lift Valves) -----	PLT-107	1	1
61	Valve Plate (Low Lift Valves) -----	PLT-126	1	1
62	Valve Springs -----	SPG-37	1 Set	3 Sets
63	Suction Valve -----	VAL-194	1	3
65	Cylinder Liner -----	LNR-20	1	1
71	Unloader Assembly -----	UNL-4	1	1
84	Capacity Control Assembly -----	CNT-4	1	2
113	Terminal - Hermetic -----	TER-8	3	6
114	Terminal Stud -----	TER-7	1 Set	2 Sets
118	"O" Ring -----	RNG-91	1	2
119	Locating Plate -----	PLT-129	2	4
120	Terminal Plate, 6 Holes (Single Voltage Units) -----	PLT-225	1	2
120	Terminal Plate, 9 Holes (Dual Voltage Units) --	PLT-128	1	2
121	Retaining Ring -----	RNG-126	1	2
122	Screw - Cap, 12 Pt. Hd., 1/4-28 x 7/8 -----	SCR-200	8	16
123	"O" Ring -----	RNG-37	1 Set	2 Sets
124	Sealing Spacer -----	SPC-8	1 Set	2 Sets
125	Washer -----	WAS-97	1 Set	2 Sets
126	Nut - Hex, 1/4-20 -----	NUT-132	1 Set	2 Sets
127	Buss Bar -----	BAR-2	1 Set	2 Sets
127	Buss Bar -----	BAR-3	1	2
128	Nut - Hex, 1/4-20 -----	NUT-76	1 Set	2 Sets
129	Nut -----	NUT-77	6	12

Parts List Continued

RECOMMENDED SPARE PARTS (CON'T.)

REF. NO.	PART NAME AND DESCRIPTION	PART NUMBER	QUANTITY	
			1 UNIT	10 UNITS
130	Terminal Lug -----	LUG-2	6	12
131	Screw - Set, Hex Soc. Hd., 1/4-20 x 3/8 -----	SCR-209	6	12
141	Oil Filter -----	FLR-45	1	4
*	Cylinder "O" Ring Kit -----	KIT-40	1 Set	3 Sets
*	Compressor Gasket and "O" Ring Kit -----	KIT-52	1 Set	3 Sets

*Not Illustrated.