



OPEN DRIVE CENTRIFUGAL LIQUID CHILLER

17M

HOW TO USE THIS CATALOG

This catalog presents the most commonly used Specified Parts for the standard 17M Centrifugal Refrigeration Machines using Refrigerant 11, and is not applicable to any special machine.

This catalog is divided into three sections: Compressor Section, Cooler and Condenser Section, and Control Section to locate a part required.

- (1) Refer to the assembly illustrations in the proper section and obtain the item number that calls out the part. (The item number is the key for locating the part in the parts listing).
- (2) Locate the item number in the parts listing to find the required part information. Information in the parts listing includes part description, quantity required, part number and assembly size.
- (3) Occasionally, due to limitations of a particular illustration, a part may be shown on a different illustration or not at all. If this is the case, scan the proper parts listing to see if the part is listed. The letters "NS" in the item column indicate that the part is not shown on any illustration.
- (4) The letter "S" in the description column indicates items which we recommend stocking at the job site for normal maintenance.

ORDERING INSTRUCTIONS

THE DESIGN #1 PARTS ARE USED ON 17M30, 17M50, 17M60 MACHINES. ALSO 17M40 MACHINES WITH A COMPRESSOR SERIAL NUMBER OF 1314 AND LOWER UNLESS OTHERWISE STATED.

THE DESIGN #2 PARTS ARE USED ON 17M40 MACHINES WITH A COMPRESSOR SERIAL NUMBER OF 1315 AND HIGHER UNLESS OTHERWISE STATED.

All parts orders and inquiries regarding 17M Machines should give the following information:

- (1) The part number and description of each part required.
- (2) A complete description and the location on the machine of any unlisted part required.
- (3) The model number, machine size, machine serial number and the compressor serial number on which parts are to be used.



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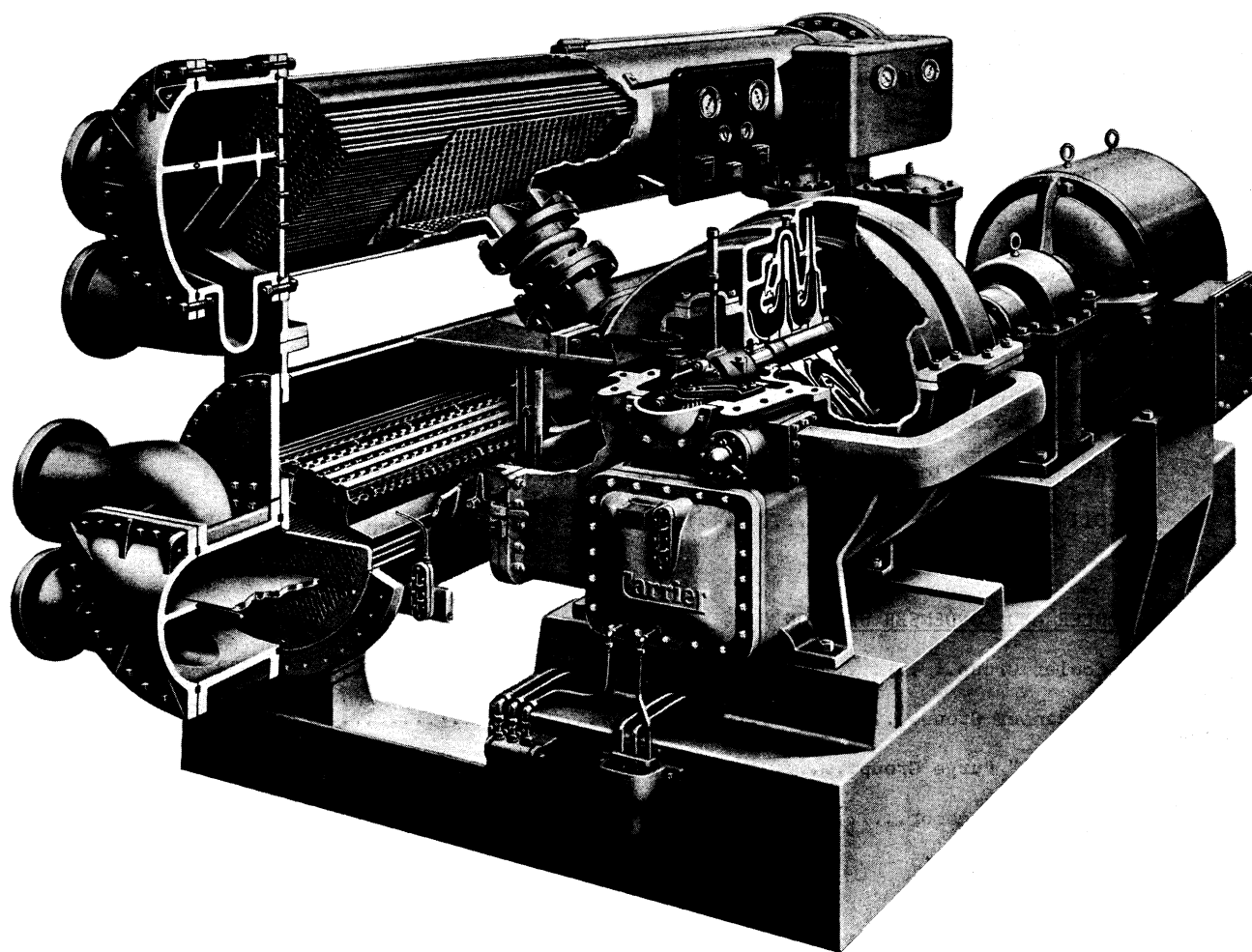
**THIS CATALOG IS USED FOR
THE STANDARD 17M BELLWS
SEAL MACHINE ONLY**

**CAUTION READ ORDERING INSTRUCTIONS
ON PAGE 2 BEFORE SELECTING PARTS**



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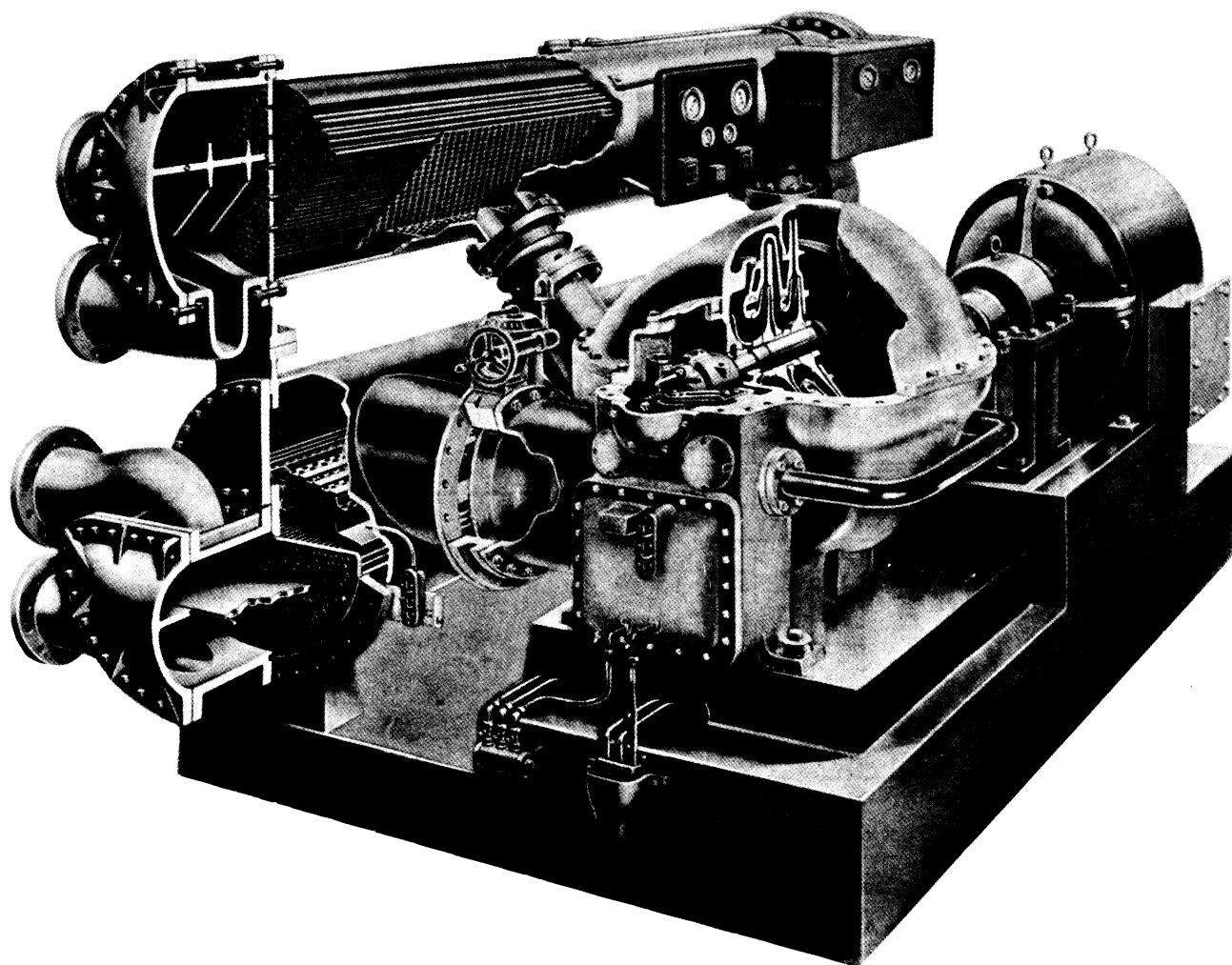
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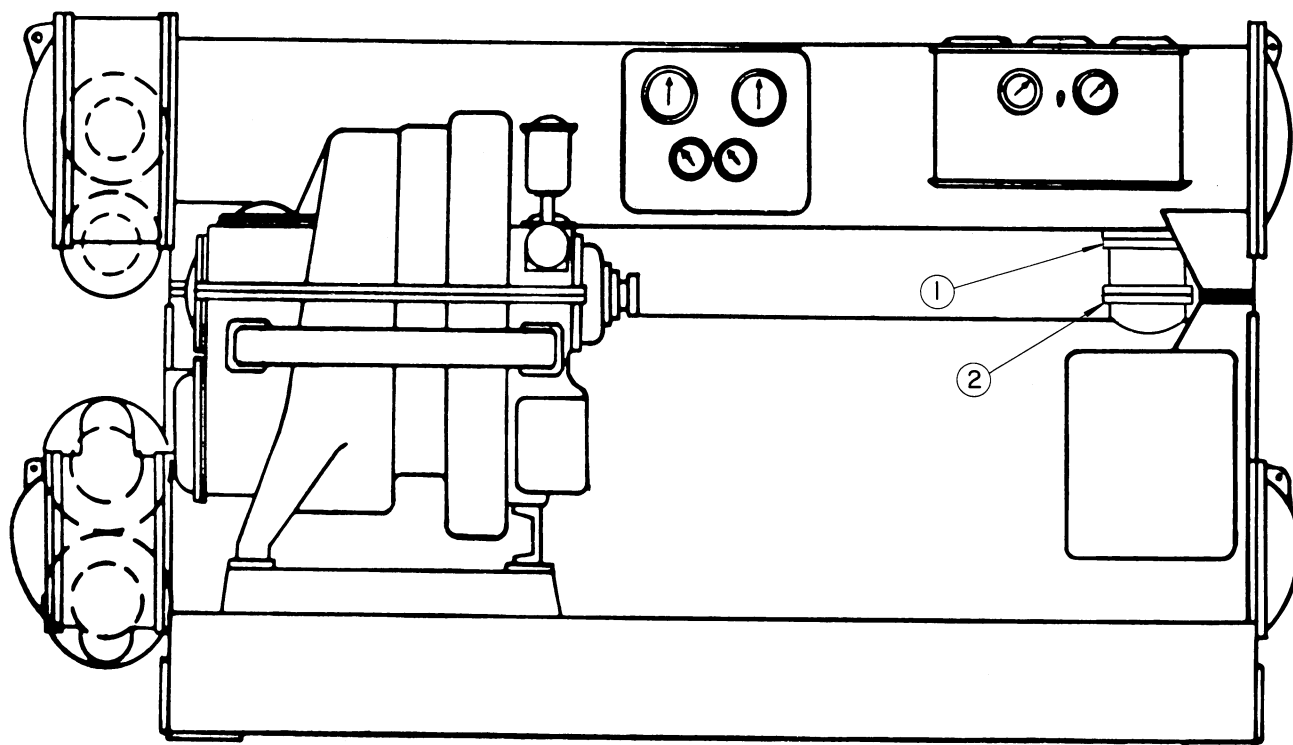
**Design #1
17M30, 50, 60 Series
17M40 Series**

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Design #2
17M40 Series



Group A — Condenser Drain Expansion Joint Gasket

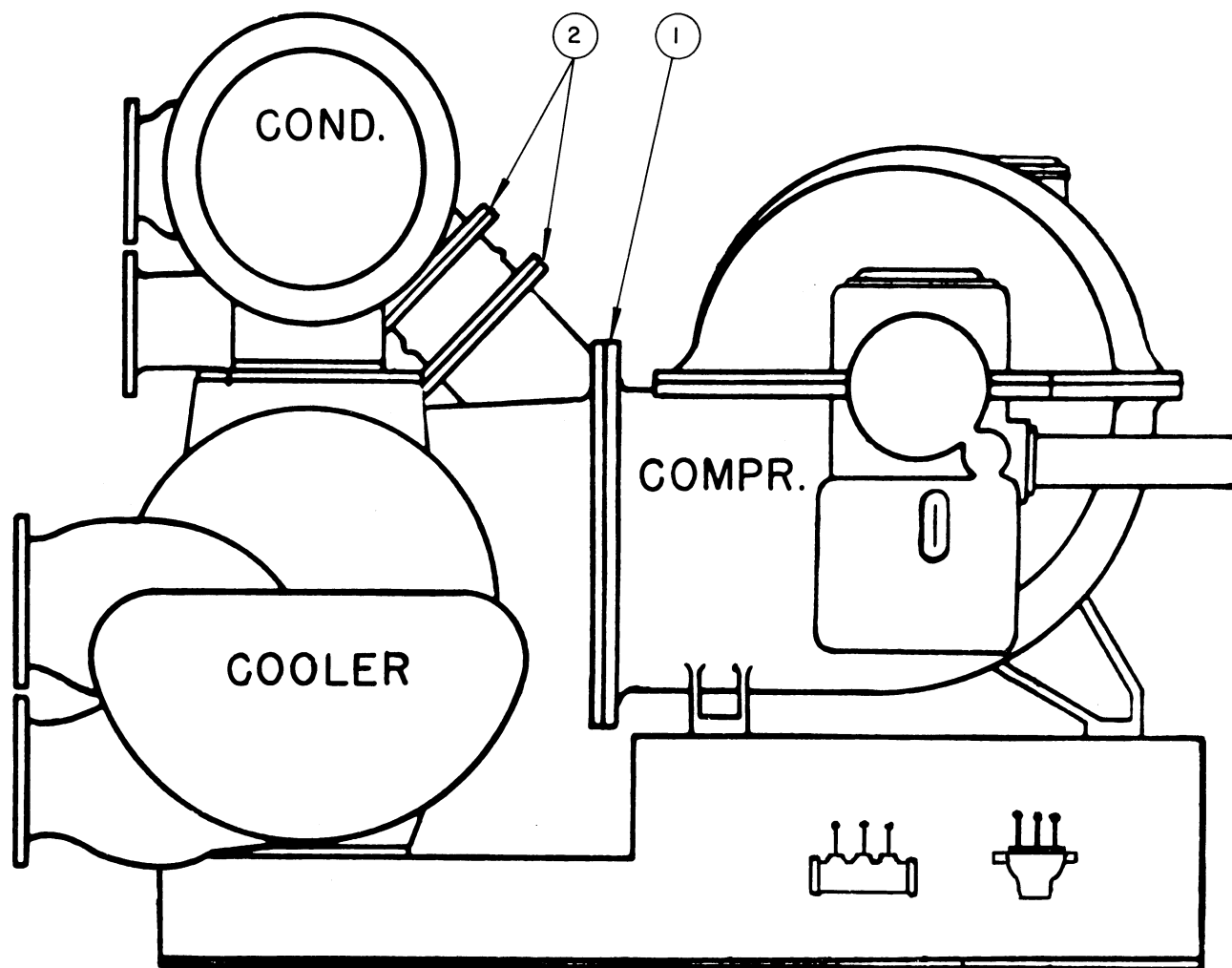


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GROUP "A" CONDENSER DRAIN EXPANSION JOINT GASKET

17Q COOLER SIZE	ITEM NO.	17R3 COND.	17R4 COND.	17R5 COND.	17R6 COND.	17R7 COND.	17R8 COND.	17R9 COND.	17R10 COND.	17R11 COND.
3	1 2	CR90YA651 CR90YA651	CR90YA651 CR90YA651	CR90YA651 CR90YA701						
3.5	1 2	CR90YA651 CR90YA651	CR90YA651 CR90YA651	CR90YA651 CR90YA701	CR90YA651 CR90YA701	CR90YA651 CR90YA751				
4	1 2	CR90YA651 CR90YA651	CR90YA651 CR90YA651	CR90YA651 CR90YA701	CR90YA651 CR90YA701	CR90YA651 CR90YA751				
5	1 2	CR90YA701 CR90YA651	CR90YA701 CR90YA651	CR90YA701 CR90YA701	CR90YA701 CR90YA751	CR90YA701 CR90YA751	CR90YA851 CR90YA751			
5.5	1 2	CR90YA751 CR90YA651	CR90YA701 CR90YA651	CR90YA751 CR90YA701	CR90YA751 CR90YA751	CR90YA751 CR90YA751	CR90YA751 CR90YA751	CR90YA751 CR90YA801		
6	1 2	CR90YA751 CR90YA651	CR90YA751 CR90YA651	CR90YA751 CR90YA701	CR90YA751 CR90YA751	CR90YA751 CR90YA751	CR90YA751 CR90YA791	CR90YA751 CR90YA801		
7	1 2			CR90YA751 CR90YA701	CR90YA751 CR90YA751	CR90YA751 CR90YA751	CR90YA751 CR90YA751	CR90YA751 CR90YA801		
8	2			CR90YA751 CR90YA701	CR90YA751 CR90YA751	CR90YA751 CR90YA751	CR90YA751 CR90YA751	CR90YA751 CR90YA801	CR90YA751 CR90YA801	CR90YA751 CR90YA801
9	1 2				CR90YA801 CR90YA751	CR90YA801 CR90YA751	CR90YA801 CR90YA751	CR90YA801 CR90YA801	CR90YA801 CR90YA801	CR90YA801 CR90YA801
9.5	1 2					CR90YA801 CR90YA751	CR90YA801 CR90YA751	CR90YA801 CR90YA801	CR90YA801 CR90YA801	CR90YA801 CR90YA801
10	1 2					CR90YA801 CR90YA751	CR90YA801 CR90YA751	CR90YA801 CR90YA801	CR90YA801 CR90YA801	CR90YA801 CR90YA801
10.3	1 2						CR90YA801 CR90YA751	CR90YA801 CR90YA801	CR90YA801 CR90YA801	CR90YA801 CR90YA801
11	1 2						CR90YA801 CR90YA751	CR90YA801 CR90YA801	CR90YA801 CR90YA801	CR90YA801 CR90YA801



Group B — Suction Box and Discharge Expansion Joint Gasket



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ITEM NO.	DESCRIPTION	QUANTITY	PART NUMBER	USED WITH 17Q COOLER
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SUCTION BOX AND DISCHARGE EXPANSION JOINT GASKET (GROUP "B")

17M30 COMPRESSOR

1	Suction Box Gasket	2	17M32-1022	17Q3, 3.5, 4
		1	17M32-1022	17Q5, 5.5, 6
		1	17M42-1022	
2	Discharge Expansion Joint Gasket	2	CR90YA951	
NS	Discharge Pipe Gasket	1	17M32-1032	
NS	Magnetrol Switch	1	KM44AR101	

17M40 COMPRESSOR DESIGN #1 & 2

1	Suction Box Gasket	2	17M42-1022	
2	Discharge Expansion Joint Gasket	2	CR90YA801	
NS	Discharge Pipe Gasket	1	17M42-1032	
NS	Magnetrol Switch	1	KM44AR101	

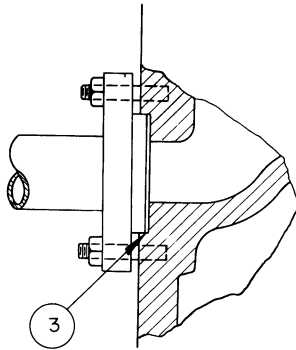
17M50 COMPRESSOR

1	Suction Box Gasket	1	17M51-1572	
2	Discharge Expansion Joint Gasket	2	CR90YA851	
NS	Magnetrol Switch	1	KM44AR101	

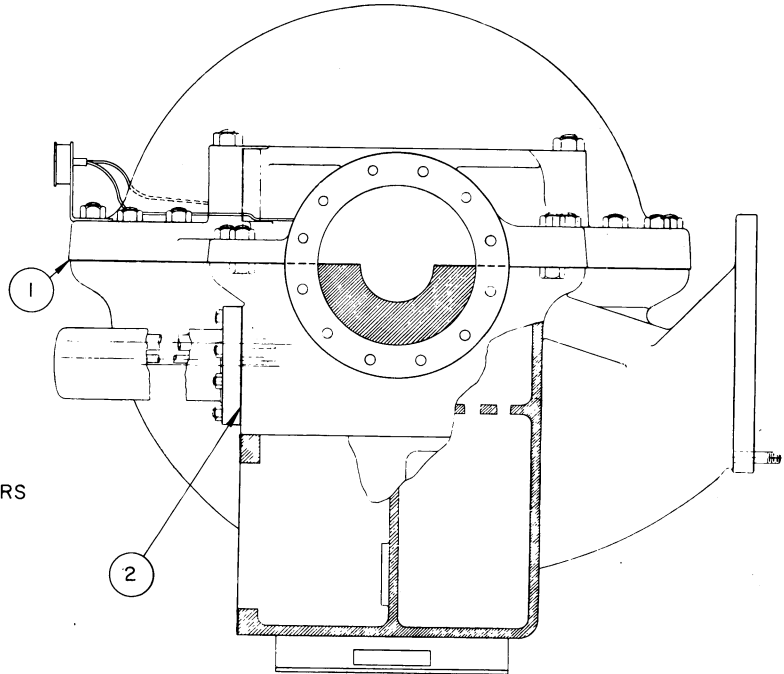
17M60 COMPRESSOR

1	Suction Box Gasket	1	17M61-1572	
2	Discharge Expansion Joint Gasket	2	CR90YA871	
NS	Magnetrol Switch	1	KM44AR101	

Note: For all Suction Boxes prior to 1948, use Gasket material
ZA0021 -1655 - Durable 1/16" thick x 60" Wide.



NOTE: ON 40 SERIES DESIGN 2 COMPRESSORS ONLY, THIS GASKET REPLACES ITEM 2



Group C — Compressor Assembly (Gasket Section)

ITEM NO.	DESCRIPTION	QUANTITY	PART NUMBER	USED ON
1	* Compressor Shell Gasket	1	ZA0021-3255	17M30,40,50
1	** Compressor Shell Gasket	1	ZA0021-32510	17M60
2	*** Manifold to Casing Gasket	2	17M32-1122	17M30,40,50,60
3	Oil Return Pipe Gasket	2	17M42-5831	17M40

Notes:

* - Gasket Material - 1/32" X 60" X 60"

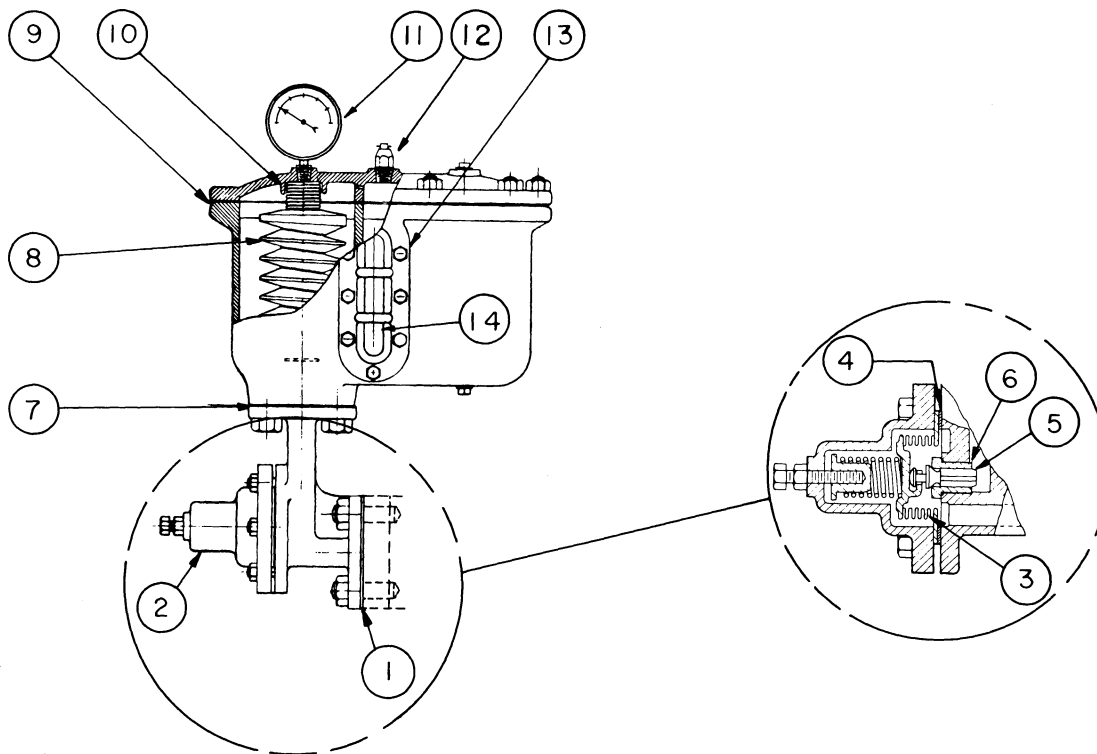
** - Gasket Material - 1/32" X 60" X 120"

*** - All Design #1 Compressors.

Item #3 used on 17M40 Compressors with Ser. #1315 and higher.

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Design #1

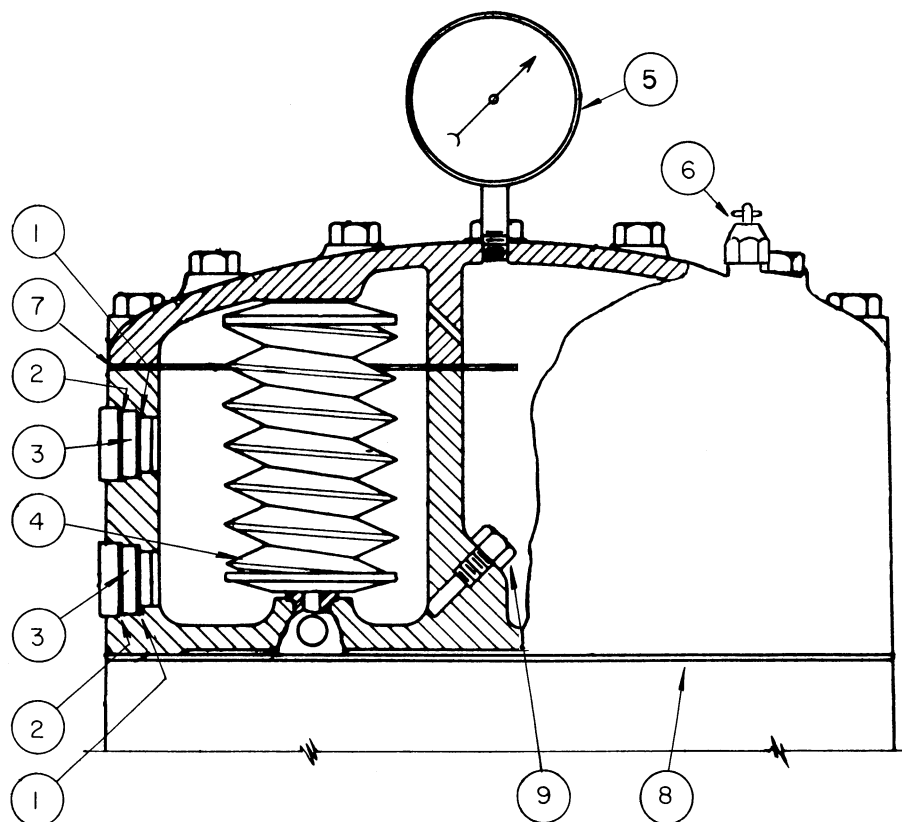
Group D – Oil Reservoir For 17M30, 50, 60, 40 Compressor

ITEM NO.	DESCRIPTION	QUANTITY	PART NUMBER
OIL RESERVOIR FOR 17M30,50,60,40 (SEE NOTE) COMPRESSOR GROUP "D"			
1	Oil Reservoir Connection Gasket	1	17M32-1101
2	Oil Check Valve Assembly	1	17M32-153
	Includes:		
3	Bellows S	1	17F104-611
4	Bellows Gasket S	1	17M32-1501
5	Valve Stem	1	17F104-9401
6	Valve Seat	1	17F104-9391
7	Oil Reservoir Bottom Gasket S	1	17M32-1111
8	Filter Cartridge S	1	KH19BZ140
9	Oil Reservoir Cover Gasket	1	17M32-1112
10	Spring	1	17M32-1512
11	Pressure Gauge (0-30#)	1	KM01AQ330
12	Air Vent Assembly	1	17F6-461A
13	Sight Glass Gasket S	2	R7-1729
14	Sight Glass S	1	17M32-1502

Note: These parts are used for 17M40 Compressors with serial number 1314 and lower.

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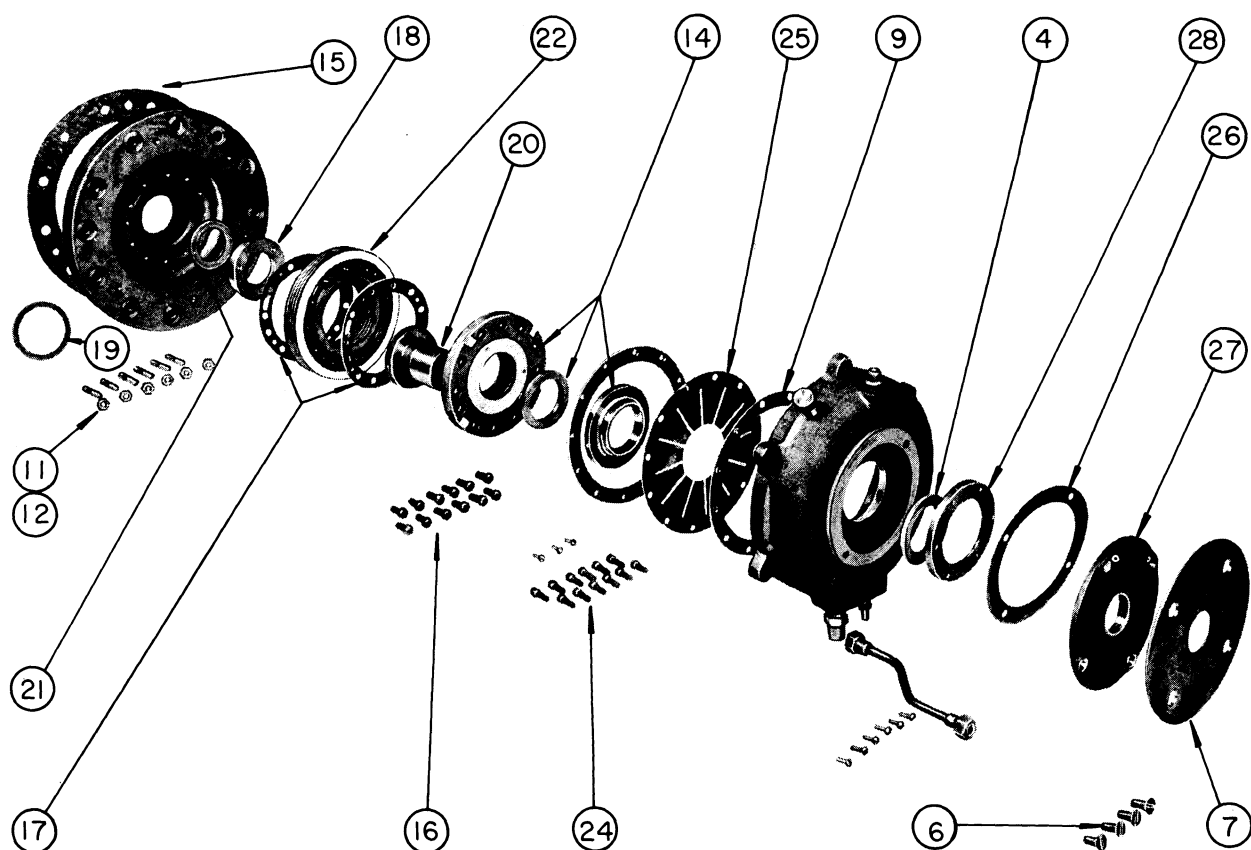


Design #2
Group D – Oil Reservoir 17M40 Compressor

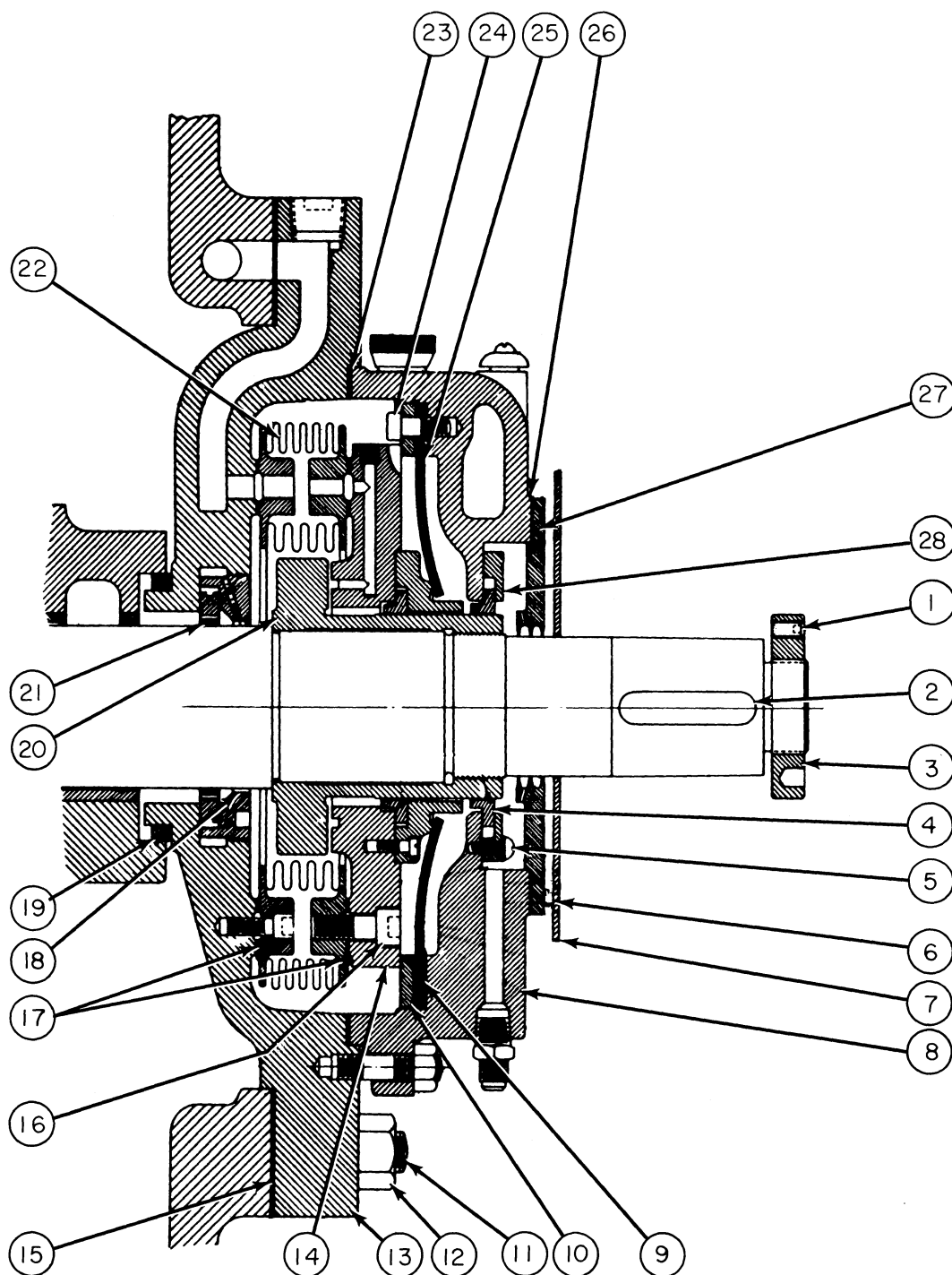
ITEM NO.	DESCRIPTION	QUANTITY	PART NUMBER
OIL RESERVOIR FOR 17M40 COMPRESSOR (DESIGN #2) GROUP "D"			
1	Sight Glass Gasket Inner S	2	5F20-1011
2	Sight Glass Gasket Outer (Package of 12) S	1	5F20-1631012
3	Sight Glass S	2	19C35-6151
4	Oil Filter Cartridge S	1	KH19BZ140
5	Pressure Gauge (0-30#)	1	KM01AQ330
6	*Air Vent Assembly	1	17F6-461A
7	Oil Reservoir Gasket (Top) S	1	17M42-2352
8	Oil Reservoir Gasket (Bottom) S	1	17M42-2362
9	Restriction Plug Assembly	1	17F104-111

Notes: 1) *Air Vent Assembly replaces Float Valve Assembly used prior to 11/22/55.

2) These parts are used on 17M40 Compressors with serial number 1315 and higher.



Group E — Bellows Type Seal



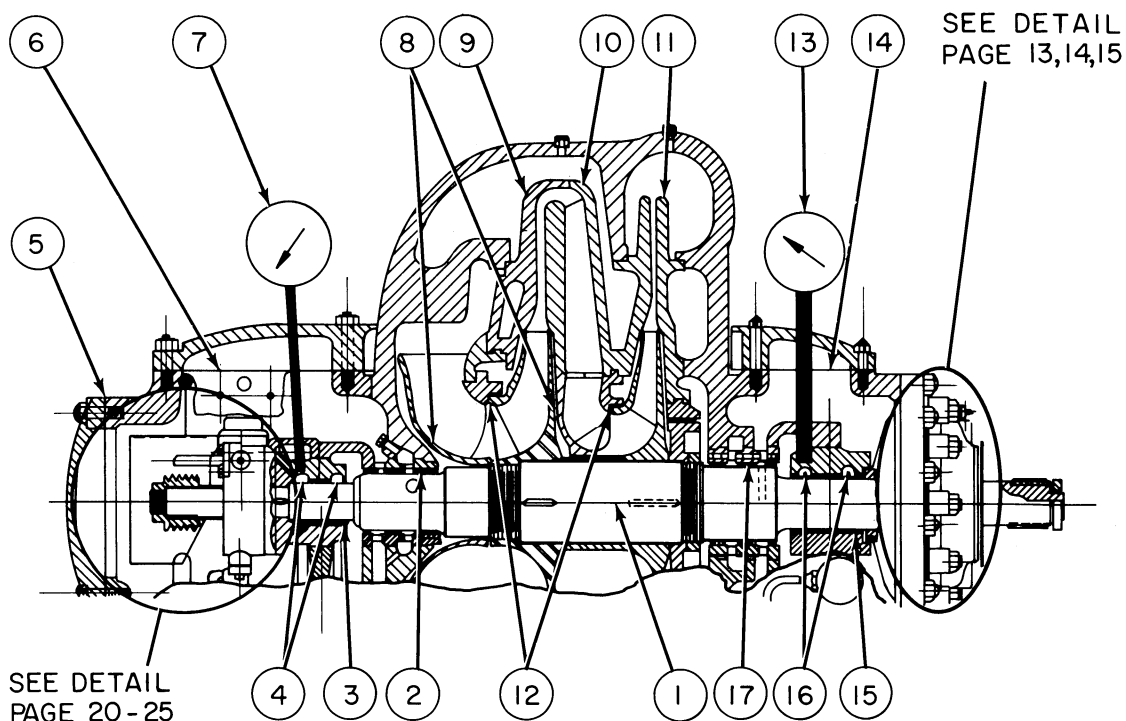
Group E — Bellows Type Seal



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ITEM NO.	DESCRIPTION	QUANTITY	17M30&40 COMPRESSOR	QUANTITY	17M50&60 COMPRESSOR
BELLOWS TYPE SEAL ASSEMBLY FOR ALL COMPRESSORS GROUP "E"					
1	Socket Head Set Screw	2	AE19AR165	2	AE19AR165
2	Coupling Key	2	17F6-1381	2	17F9-1401
3	Coupling Nut	1	17M32-1381	1	17F9-1241
4	Outer Floating Seal Ring S	1	17M32-1352	1	17M52-1352
5	Round Head Machine Screw	6	AC15AA127	6	AC15AA127
6	Flat Head Machine Screw	4	AC26AA198	4	AC26AA198
7	Shaft End Baffle	1	17M32-1392	1	17M52-1392
8	Seal Housing Cover Assembly	1	17M32-213-1	1	17M52-1134
9	Laminated Shim (Seal Spring)	1	17M32-1203	1	17M52-1203
10	Retainer Ring	1	17M32-1193	1	17M52-1193
11	Seal Housing Cover Stud	6	17M32-1461	6	17M32-1461
12	Nut	6	AT39AA241	6	AT39AA241
13	Seal Housing Assembly	1	17M32-1124	1	17M52-1124
14	Seal Seat Assembly (Stationary) Includes: Seal Seat Assembly Outer Floating Ring Retainer Outer Floating Seal Ring S	1 1 1 1	17M32-243 17M32-1153A 17M32-1492 17M32-1352	1 1 1 1	17M52-243 17M52-1153 17M52-1492 17M52-1352
15	Seal Housing Gasket S	1	17M32-1361	1	17M52-1361
16	Cap Screw	12	AA44AA198	12	AA44AA198
17	Bellows Gasket S	2	17M32-1332	2	17M52-1332
18	Inner Floating Ring Retainer S	1	17M32-1402	1	17M52-1402
19	Felt Seal Ring S	1	17M32-1541	1	17M42-6431
20	Rotating Seal Seat S	1	17M32-1342	1	17M52-1342
21	Inner Floating Seal Ring S	1	17M32-1362	1	17M52-1362
22	Bellows Assembly	1	17M32-183	1	17M52-183
23	Seal Housing Cover Gasket S	1	17M32-1341	1	17M52-1341
24	Cap Screw	12	AA44AA229	12	AA44AA229
25	Seal Spring S	6	17M32-1183	6	17M52-1183
26	Shaft End Labyrinth Gasket S	1	17M32-1351	1	17M52-1351
27	Shaft End Labyrinth	1	17M32-1382	1	17M52-1382
28	Outer Floating Ring Retainer S	1	17M32-1412	1	17M52-1412



Design #1
Group F — Compressor 17M30, 50, 60
17M40 With Serial Numbers 1314 and Lower



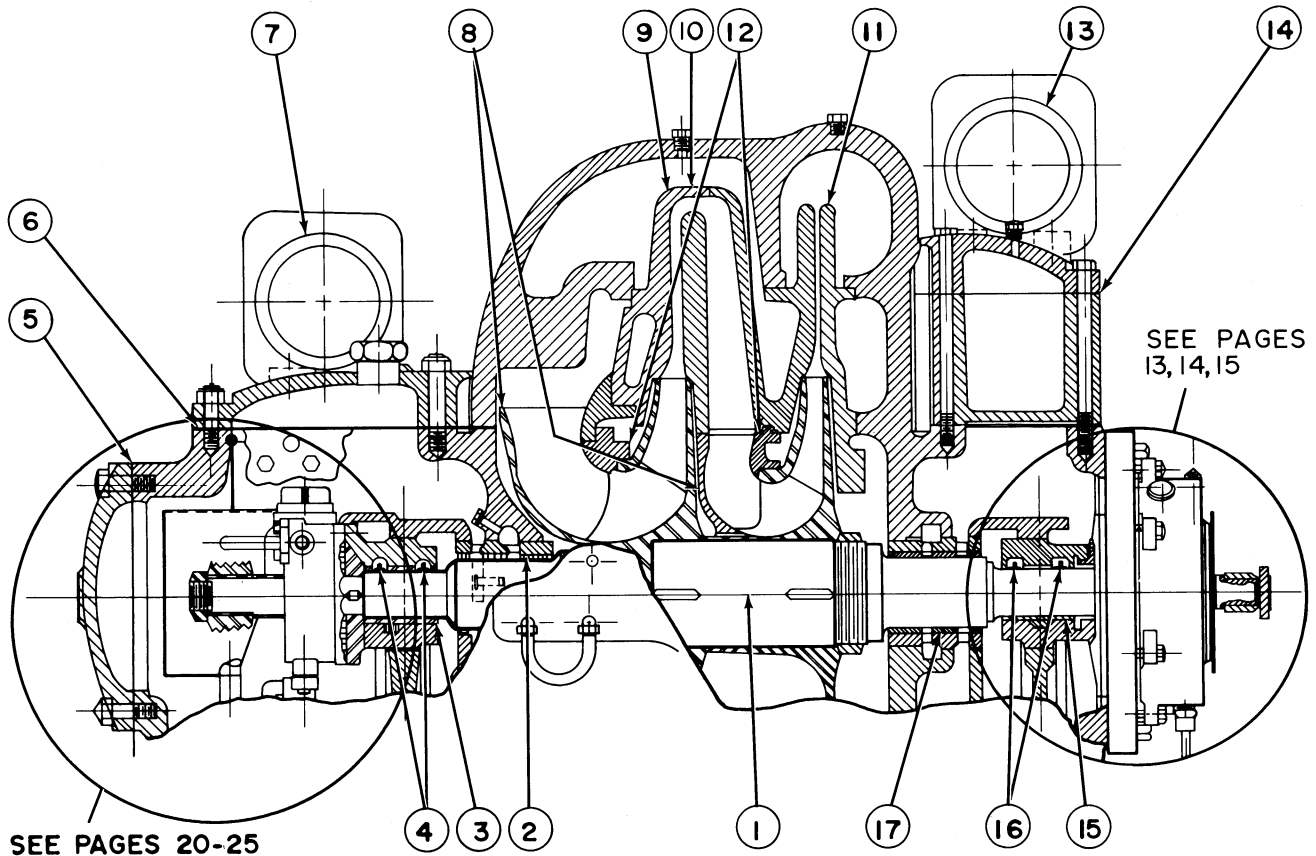
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ITEM NO.	DESCRIPTION	QUANTITY	17M30&40 COMPRESSOR	QUANTITY	17M50&60 COMPRESSOR
COMPRESSOR ASSEMBLY (17M30,50,60) & 17M40 (DESIGN #1) GROUP "F"					
1	Impeller and Shaft Assembly	1	*	1	*
2	Shaft Labyrinth Package (Thrust End) Includes: "O" Ring "O" Ring	1 1 1	17M30-115 KK71GZ048 KK71GZ050	1	17M52-1113
3	Bearing Liner Package (Thrust End)	1	17M32-147	1	17M52-147
4	Bearing Oil Ring (Thrust End) S	2	17F6-822	2	17F104-822
5	Thrust End Cover Gasket S	1	17M32-1131	1	17M52-1131
6	Inspection Cover Gasket (Thrust End) S	1	17M32-1132	1	17M52-1132
7	Dial Thermometer (Thrust End) S	1	KM14AC301	1	KM14AC301
8	Inlet Guide Vanes		*		*
9	Intake Wall Assembly		*		*
10	Diaphragm Assembly		*		*
11	Discharge Wall Assembly		*		*
12	Labyrinth Strip (For Guide Vanes)		*		*
13	Dial Thermometer (Seal End) S	1	KM14AC301	1	KM14AC301
14	Inspection Cover Gasket (Seal End) S	1	17M32-1142	1	17M52-1142
15	Bearing, Liner Package (Seal End)	1	17M32-147	1	17M52-147
16	Bearing Oil Rings (Seal End) S	2	17F6-822	2	17F104-822
17	Shaft Labyrinth Package (Seal End) Includes: "O" Ring "O" Ring	1 1 1	17M30-115 KK71GZ048 KK71GZ050	1	17M52-1113

Notes:

- 1) *Order per job requirement.
- 2) These parts are used on all 17M40 Compressors with serial number 1314 and lower.



Design #2
Group F — Compressor Assembly 17M40
With Serial Numbers 1315 and Higher



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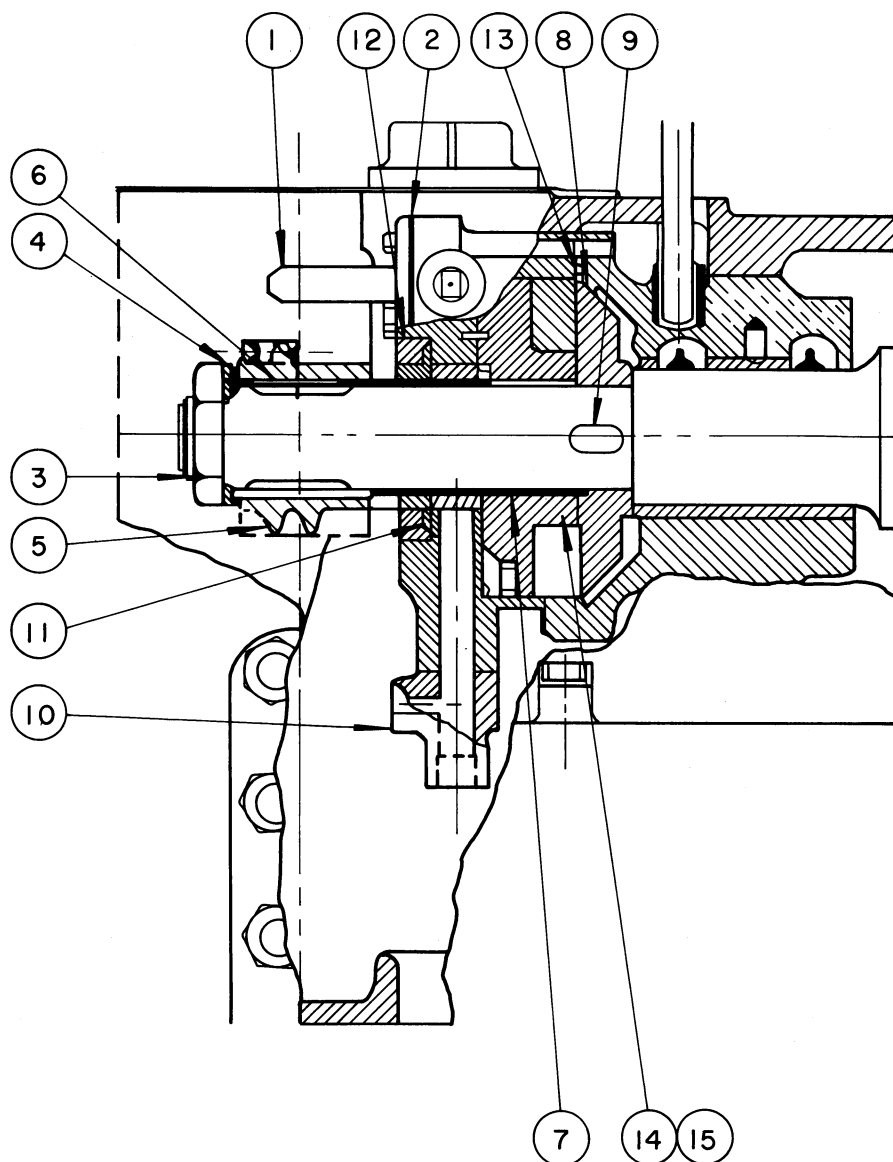
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ITEM NO.	DESCRIPTION	QUANTITY	PART NUMBER
COMPRESSOR ASSEMBLY 17M40 DESIGN #2 GROUP "F"			
1	Impeller and Shaft Assembly	1	*
2	Shaft Labyrinth Package (Thrust End) Includes: "O" Ring "O" Ring	1 1 1	17M30-115 KK71GZ048 KK71GZ050
3	Bearing Liner Package (Thrust End)	1	17M32-147
4	Bearing Oil Ring (Thrust End) S	2	17F9-822
5	Thrust End Cover Gasket S	1	17M32-1131
6	Inspection Cover Gasket (Thrust End) S	1	17M42-2372
7	Bearing Temperature Thermometer (Thrust End) S	1	KM11AC322
8	Inlet Guide Vanes		*
9	Intake Wall Assembly		*
10	Diaphragm Assembly		*
11	Discharge Wall Assembly		*
12	Labyrinth, Strip (For Guide Vanes)		*
13	Bearing Temperature Thermometer (Seal End) S	1	KM11AC322
14	Oil Reservoir Gasket (Top) S	1	17M42-2352
15	Bearing Liner Package (Seal End)	1	17M32-147
16	Bearing Oil Rings (Seal End) S	2	17F9-822
17	Shaft Labyrinth Package (Seal End) Includes: "O" Ring "O" Ring	1 1 1	17M30-115 KK71GZ048 KK71GZ050

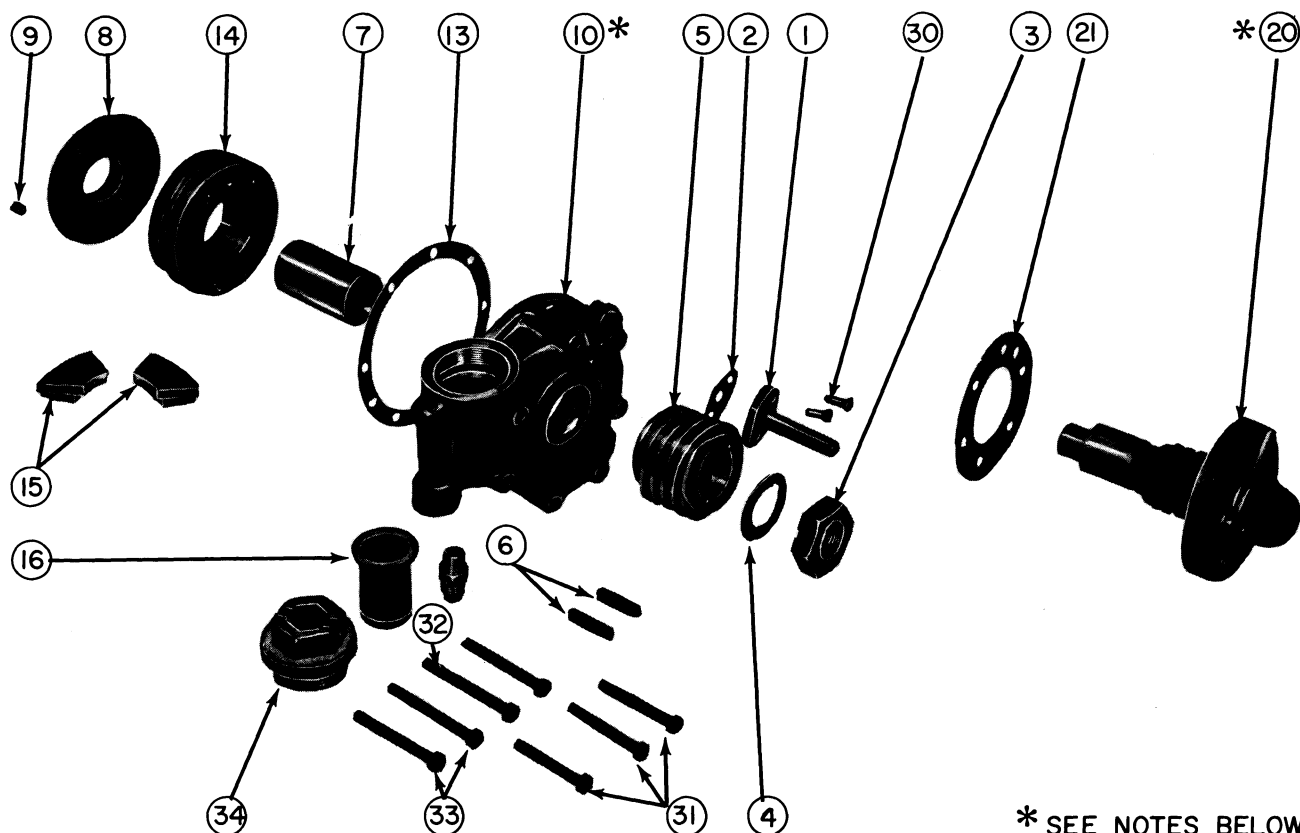
Notes:

1) *These parts are used on 17M40 Compressors with serial number 1315 and higher.*

2) **Order per job requirement.*



Group G – Thrust Chamber Group
Typical Assembly All Designs

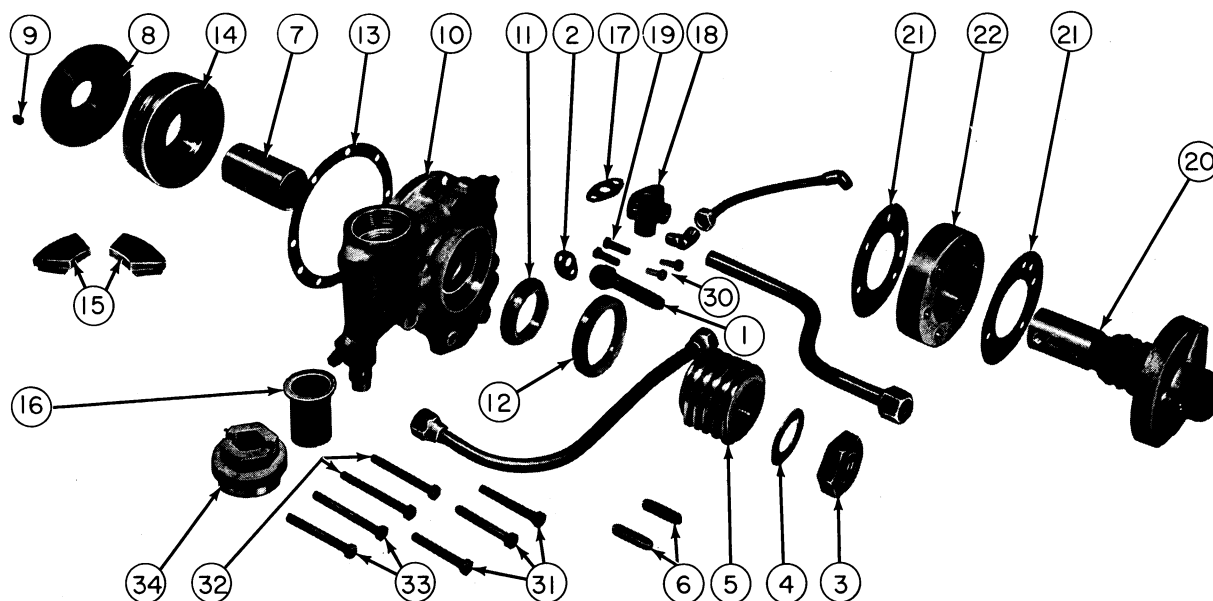


* SEE NOTES BELOW

**Group G — Thrust Chamber Group Used on
Compressors 17M30, 40, 50, 60 Made Before 1944**

Notes: 1) If Item #10 Thrust Bearing Housing or Item #20 Oil Pressure Reg. Valve have to be replaced, order the Thrust Bearing Conversion Package 17M32-804 for the 30 and 40 size Compressors or the 17M52-804 for the 50 and 60 size Compressors.

2) All other items pick up from compressors made between 1944 and 1948.



Group G — Thrust Chamber Group. Used on 17M30,50,60 compressors from 1944 to present.

17M40 compressor used this design from 1944 to 1948. All 17M40 compressors after 1948 use design on pages 24, 25, 26.

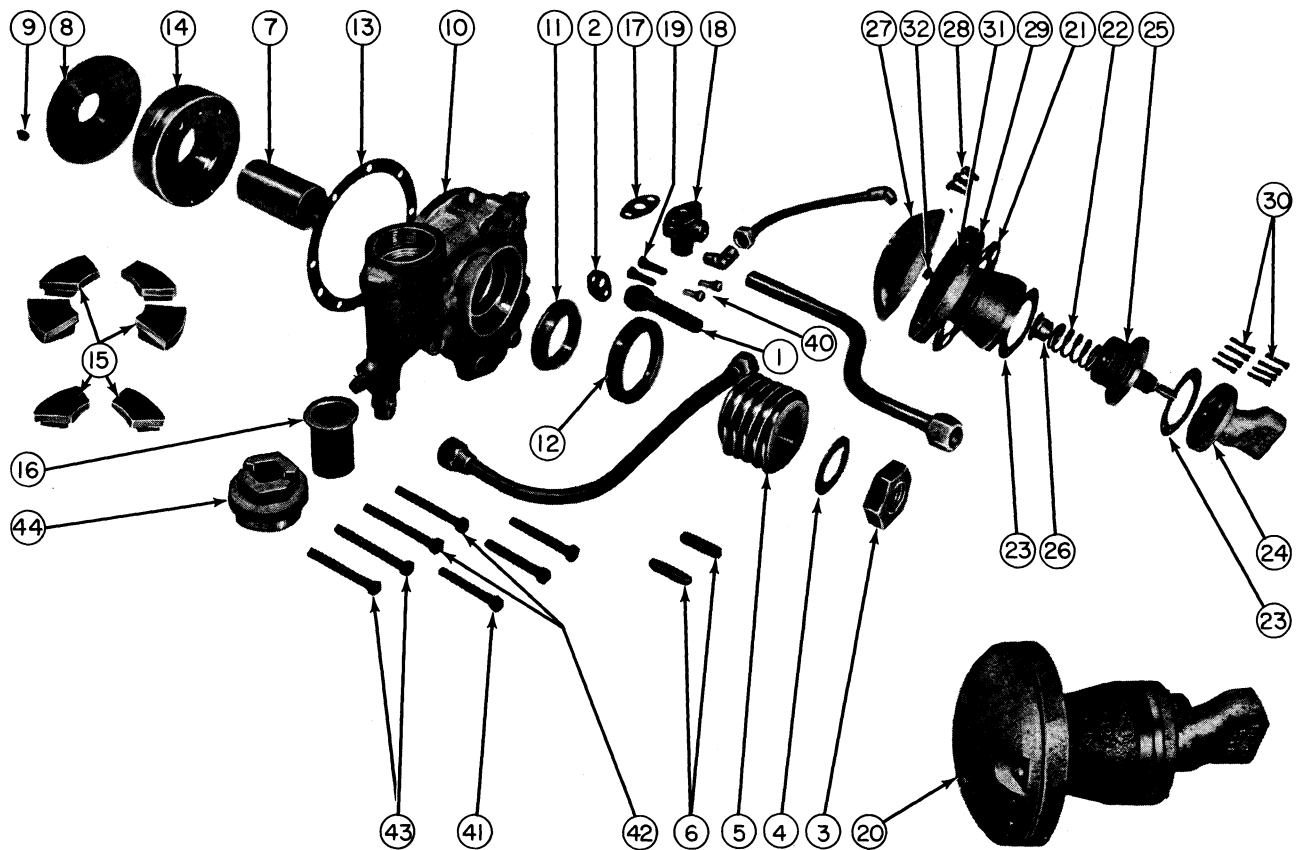


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ITEM NO.	DESCRIPTION	Q	30 SERIES	Q	* 40 SERIES	Q	50 SERIES	Q	60 SERIES
17M30, 50,60 THRUST CHAMBER GROUP USED FROM 1944 TO PRESENT EXCEPT 17M40 (SEE NOTE) GROUP "G"									
1	Oil Nozzle	1	17M32-1192A	1	17M42-1192A	1	17M52-1192A	1	17M52-1192A
2	Oil Nozzle Gasket S	1	17M32-5671	1	17M32-5671	1	17M32-6421	1	17M32-6421
3	Worm Lock Nut	1	17M32-1411	1	17M32-1411	1	17M52-1411	1	17M52-1411
4	Worm Lock Washer S	1	17M32-1421	1	17M32-1421	1	17M52-1421	1	17M52-1421
5	Worm (Oil Pump Drive - Steel)S	1	17M32-1002	1	17M32-1002	1	17M52-1002	1	17M52-1002
6	Worm Key	2	17M32-1371	2	17M32-1371	2	17M32-1371	1	17M32-1371
7	Worm Spacer	1	17M32-1431	1	17M42-1431	1	17M52-1431	1	17M52-1431
8	Thrust Disc S	1	17M32-1401	1	17M32-1401	1	17M52-1401	1	17M52-1401
9	Thrust Disc Key	1	17M32-1441	1	17M32-1441	1	17M52-1441	1	17M52-1441
10	Thrust Bearing Housing	1	17M32-2004	1	17M32-2004	1	17M52-2004	1	17M52-2004
11	Floating Oil Seal Ring S	1	17M32-1702	1	17M32-1702	1	17S44-1352	1	17S44-1352
12	Seal Retainer - Floating Seal Ring	1	17M32-1652	1	17M32-1652	1	17M52-1652	1	17M52-1652
13	Thrust Bearing Housing Gasket S	1	17M32-1822	1	17M32-1822	1	17M52-1622	1	17M52-1622
14	Thrust Bearing Assembly Includes:	1	17M32-283	1	17M32-283	1	17M52-283	1	17M52-283
15	Thrust Shoe Package S	1	17M32-022	1	17M32-022	1	17M52-022	1	17M52-022
16	Oil Strainer Screen S	1	17M32-101	1	17M32-101	1	17M32-101	1	17M32-101
17	Flanged Tee Gasket S	1	17M32-5331	1	17M32-5331	1	17M32-5331	1	17M32-5331
18	Flanged Tee	1	17M32-5321	1	17M32-5321	1	17M32-5321	1	17M32-5321
19	Hex Hd. Capscrew	2	AA06BR200	2	AA06BR200	2	AA06BR200	2	AA06BR200
20	Oil Pressure Reg. Valve Ass'y	1	17M32-143A	1	17M32-143A	1	17M32-143A	1	17M32-143A
21	Oil Press. Reg. Valve Gasket S	2	17F104-9571	2	17F104-9571	2	17F104-9571	2	17F104-9571
22	Oil Press. Reg. Valve Spacer	1	17M32-5341	1	17M32-5341	1	17M32-5341	1	17M32-5341
23	Oil Pump Shaft and Gear Ass'y Includes: Item #24 thru #29	1	17M32-113	1	17M42-113	1	17M52-113	1	17M62-113
24	Worm Gear Wheel (Brass)	1	17M32-1012	1	17M42-1012	1	17M52-1012	1	17M62-1012
25	Worm Wheel Locknut	1	R7-1720	1	R7-1720	1	R7-1720	1	R7-1720
26	Worm Wheel Key	1	R7-1721	1	R7-1721	1	R7-1721	1	R7-1721
27	Pump Shaft	1	17M32-1102	1	17M32-1102	1	17M52-1102	1	17M52-1102
28	Pump Shaft Locknut	2	17M32-1171	2	17M32-1171	2	17M32-1171	2	17M32-1171
29	Pump Shaft Bushing S	1	R7-1722	1	R7-1722	1	R7-1722	1	R7-1722
30	Hex Hd. Screw	2	AA06BR168	2	AA06BR168	2	AA06BR168	2	AA06BR168
31	Hex Hd. Screw	3	AA06BR207	3	AA06BR207	3	AA06BR207	3	AA06BR207
32	Hex Hd. Screw	2	AA06BR209	2	AA06BR209	2	AA06BR209	2	AA06BR209
33	Hex Hd. Screw	2	AA06BR210	2	AA06BR210	2	AA06BR210	2	AA06BR210
34	Cap	1	17M32-1182	1	17M32-1182	1	17M32-1182	1	17M32-1182

Note: * This design was used from 1944-1948 on the 17M40 compressor. For 17M40 Compressors made after 1948, see Pages 24, 25, 26.



**Group G — Thrust Chamber Group Used on
17M40 Compressors Made After 1948**



OPEN DRIVE CENTRIFUGAL LIQUID CHILLER

17M

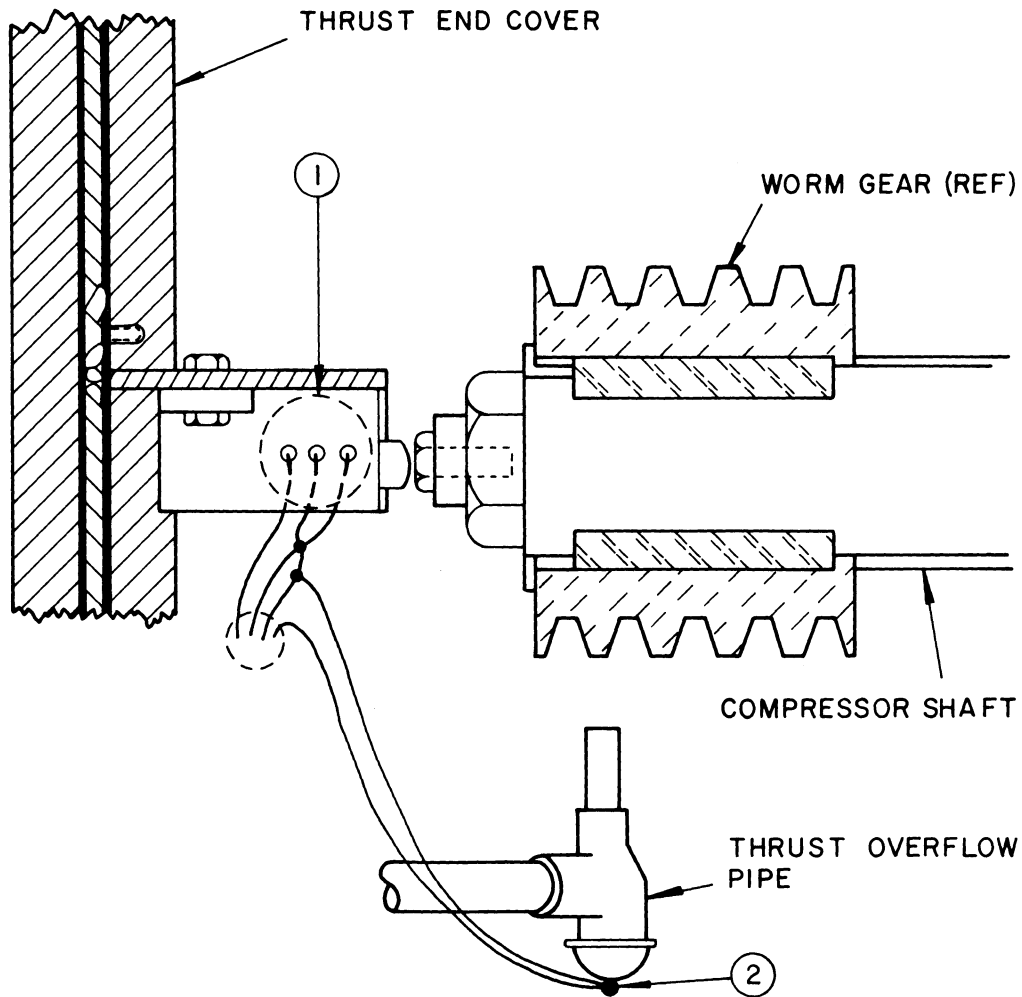
ITEM NO.	DESCRIPTION	QUANTITY	PART NUMBER
17M40 THRUST CHAMBER GROUP USED FROM 1948 TO PRESENT GROUP "G"			
1	Oil Nozzle	1	17M42-1192A
2	Oil Nozzle Gasket S	1	17M32-5671
3	Worm Lock Nut	1	17M32-1411
4	Worm Lock Washer S	1	17M32-1421
5	Worm (Oil Pump Drive) (Steel) S	1	17M32-1002
6	Worm Key	2	17M32-1371
7	Worm Spacer	1	17M42-1431
8	Thrust Disc S	1	17M32-1401
9	Thrust Disc Key	1	17M32-1441
10	Thrust Bearing Housing	1	17M42-2004
11	Floating Oil Seal Ring S	1	17M32-1702
12	Seal Retainer - Floating Seal Ring	1	17M32-1652
13	Thrust Bearing Housing Gasket S	1	17M32-1822
14	Thrust Bearing Assembly	1	17M32-283
15	Includes: Thrust Shoe Package S	1	17M32-022
16	Oil Strainer Screen S	1	17M32-101
17	Flanged Tee Gasket S	1	17M32-5331
18	Flanged Tee	1	17M32-5321
19	Hex Hd. Capscrew	2	AA06BR200
20	Oil Relief and Check Valve Assembly	2	17M42-453
21	Includes: Oil Relief Valve Gasket S	2	17M42-5691
22	Oil Relief Valve Spring	2	17M42-6131
23	Retainer Gasket S	4	17M42-5701
24	Oil Relief Valve Connector	2	17M42-1633
25	Bellow and Valve Assembly S	2	17M42-542
26	Spring Retainer	2	17M42-5731
27	Oil Relief Valve Cover	2	17M42-2192
28	Rd. Hd. Machine Screw	6	AD15AA167
29	Oil Stop Valve Body	2	17M42-1623
30	Allen Hd. Cap Screws	16	AA44AA130
31	Hex Jam Nut	2	AT40AA201
32	Adjusting Screw	2	17M42-5781



OPEN DRIVE CENTRIFUGAL LIQUID CHILLER

17M

ITEM NO.	DESCRIPTION	QUANTITY	PART NUMBER
17M40 THRUST CHAMBER GROUP USED FROM 1948 TO PRESENT GROUP "G" (CONT'D)			
33	Oil Pump Shaft and Gear Assembly Includes:	1	17M42-113
34	Worm Gear Wheel (Brass) S	1	17M42-1012
35	Worm Wheel Locknut	1	R7-1720
36	Worm Wheel Key	1	R7-1721
37	Pump Shaft	1	17M32-1102
38	Pump Shaft Locknut (L.H. Threaded)	2	17M32-1171
39	Pump Shaft Bushing S	1	R7-1722
40	Hex Hd. Screw	2	AA06BR168
41	Hex Hd. Screw	3	AA06BR207
42	Hex Hd. Screw	2	AA06BR210
43	Hex Hd. Screw	2	AA06BR209
44	Cap	1	17M32-1182



Group H — Shaft Movement Switch Package

PRODUCT IMPROVEMENT DATE JUNE 1968

ITEM NO.	DESCRIPTION	QUANTITY	PART NUMBER
SHAFT MOVEMENT SWITCH PACKAGE GROUP "H"			
1	Micro Switch	1	17MA41-252
2	Bearing Oil Return Thermostat S	1	19DA11-1402

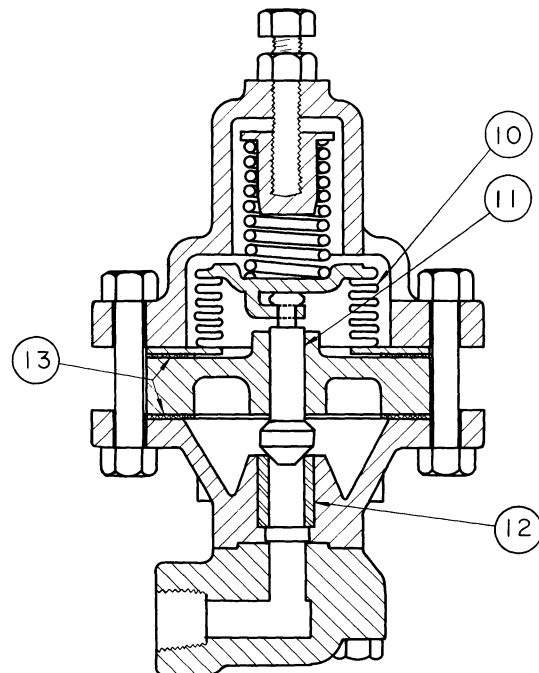
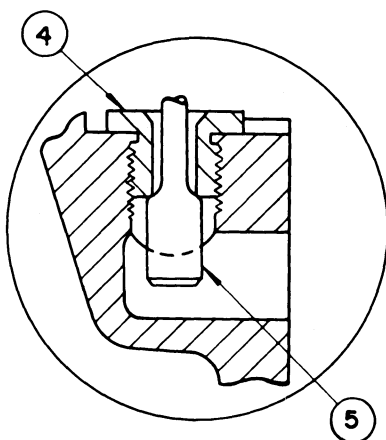
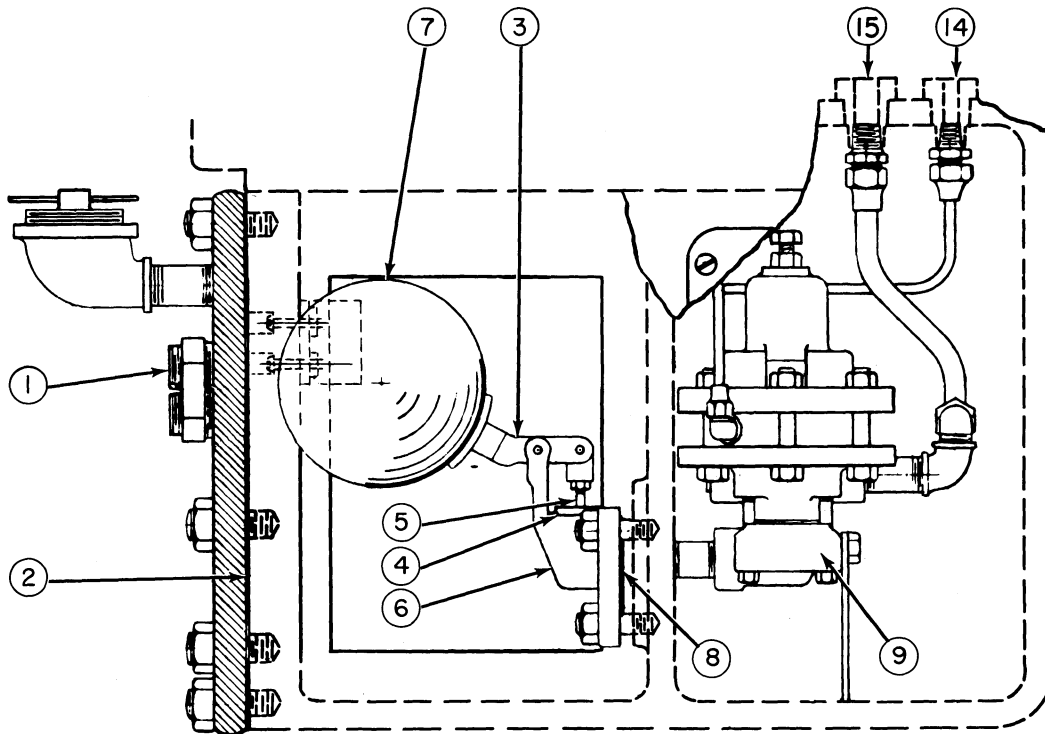
Note: This package is a product improvement and may be ordered under the following part numbers:

For a 30 or 40 Compressor, order 17M32-372-1

For a 50 or 60 Compressor, order 17M52-372-1

OPEN DRIVE CENTRIFUGAL LIQUID CHILLER

17M



Design #1
Group J – Atmospheric Float Chamber

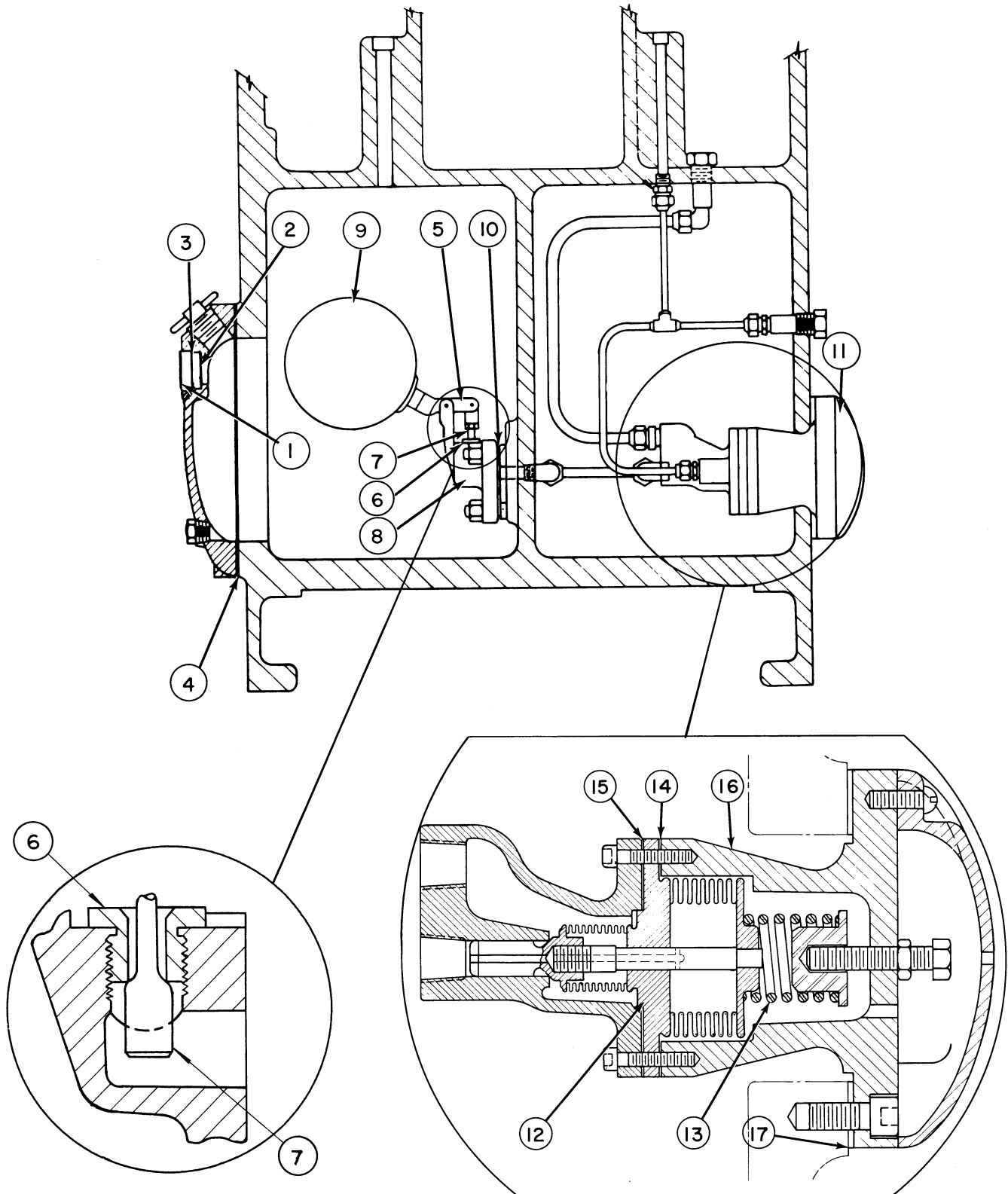


OPEN DRIVE CENTRIFUGAL LIQUID CHILLER

17M

ITEM NO.	DESCRIPTION	QUANTITY	PART NUMBER
DESIGN #1 ATMOSPHERIC FLOAT CHAMBER (SEE NOTE) GROUP "J"			
1	Bullseye Sight Glass Assembly Includes: Sight Glass Gasket (Pkg. of 5) Sight Glass	1 1 1	17F9-792 R5-1004-005 KM36AW105
2	Chamber Cover Gasket S	1	17F84-1101
3	Atmospheric Float Valve Assembly Includes: Item #4 thru #7	1	17M32-133
4	Float Valve Seat	1	17M32-1201
5	Float Valve Stem	1	17M32-1221
6	Float Valve Body	1	17M32-1282
7	Float Ball - Only	1	EC28HZ033
8	Atmospheric Float Valve Gasket S	1	17F104-9561
9	Oil Stop Valve Assembly Includes: Item #10 thru #13	1	17M32-264
10	Stop Valve Bellows S	1	17F104-611
11	Stop Valve Stem	1	17F104-9451
12	Stop Valve Seat	1	17F104-9801
13	Stop Valve Gasket S	2	17M32-1501
14	Oil Connector	1	17M32-2001
15	Oil Connector	1	17M32-1981

*Note: These parts are used on 17M30, 50, 60 Machines;also 17M40
Machines with Compressor Serial No. 1314 and lower.*



Design #2

Group J – Atmospheric Float Chamber



OPEN DRIVE CENTRIFUGAL LIQUID CHILLER

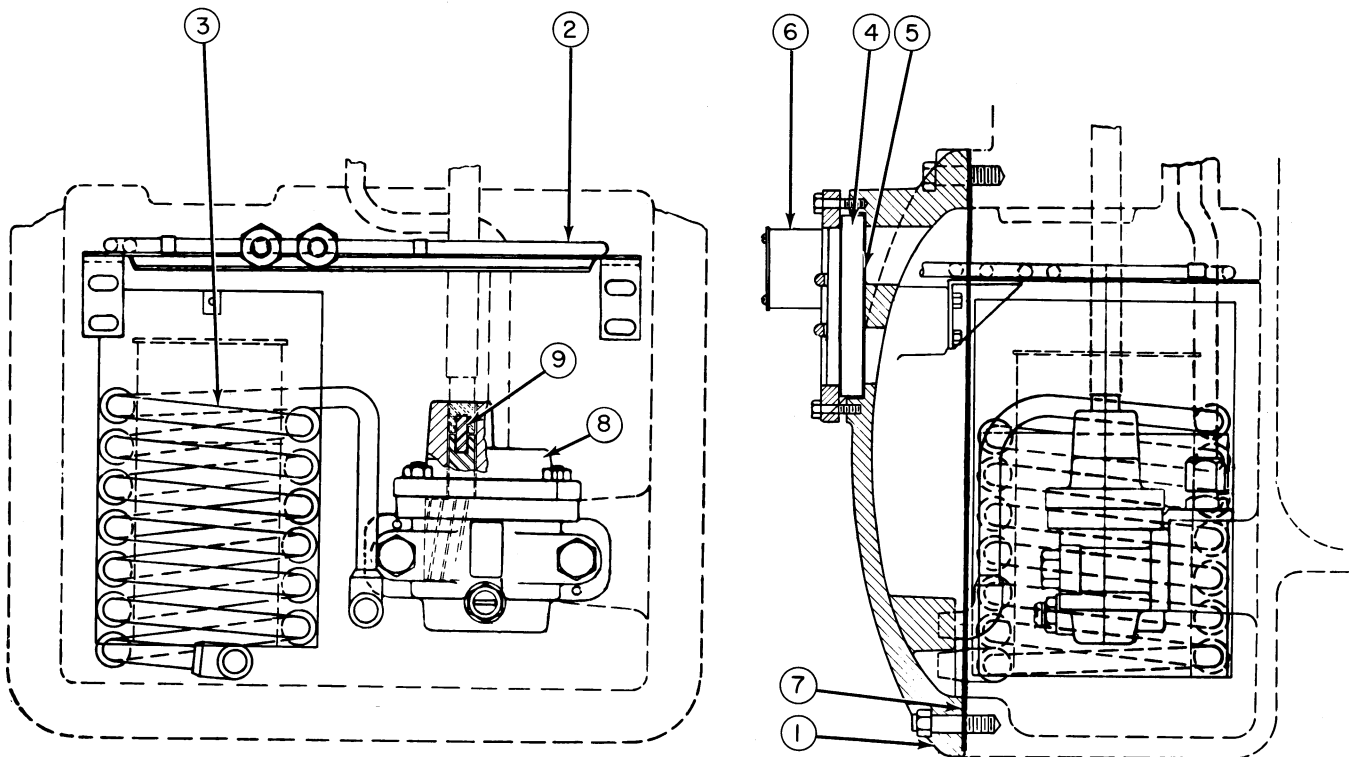
17M

ITEM NO.	DESCRIPTION	QUANTITY	PART NUMBER
ATMOSPHERIC FLOAT CHAMBER DESIGN #2 GROUP "J"			
1	Bullseye Sight Glass S	1	19C35-6151
2	Inner Sight Glass Gasket S	1	5F20-1011
3	Outer Sight Glass Gasket (Package of 12) S	1	5F20-1631012
4	Atmospheric Float Valve Chamber Cover Gasket S	1	17M42-2232
5	Atmospheric Float Valve Assembly Includes: Item #6 thru #9	1	17M32-133
6	Float Valve Seat	1	17M32-1201
7	Float Valve Stem	1	17M32-1221
8	Float Valve Body	1	17M32-1282
9	Float Ball - Only	1	EC28HZ033
10	Float Valve Gasket S	1	17F104-9561
11	Oil Stop Valve Assembly Includes: Item #12 thru #16	1	17M42-443
12	Bellows	1	17M42-532
13	Spring	1	17M42-6131
14	Gasket (Retainer) S	1	17M42-5701
15	Gasket (Connector)	1	17M42-6121
16	Stop Valve Body	1	17M42-1623
17	Oil Stop Valve Gasket S	1	17M42-5691

Note: These parts are used on 17M40 Compressors made after 1948 with Serial No. 1315 and higher.

OPEN DRIVE CENTRIFUGAL LIQUID CHILLER

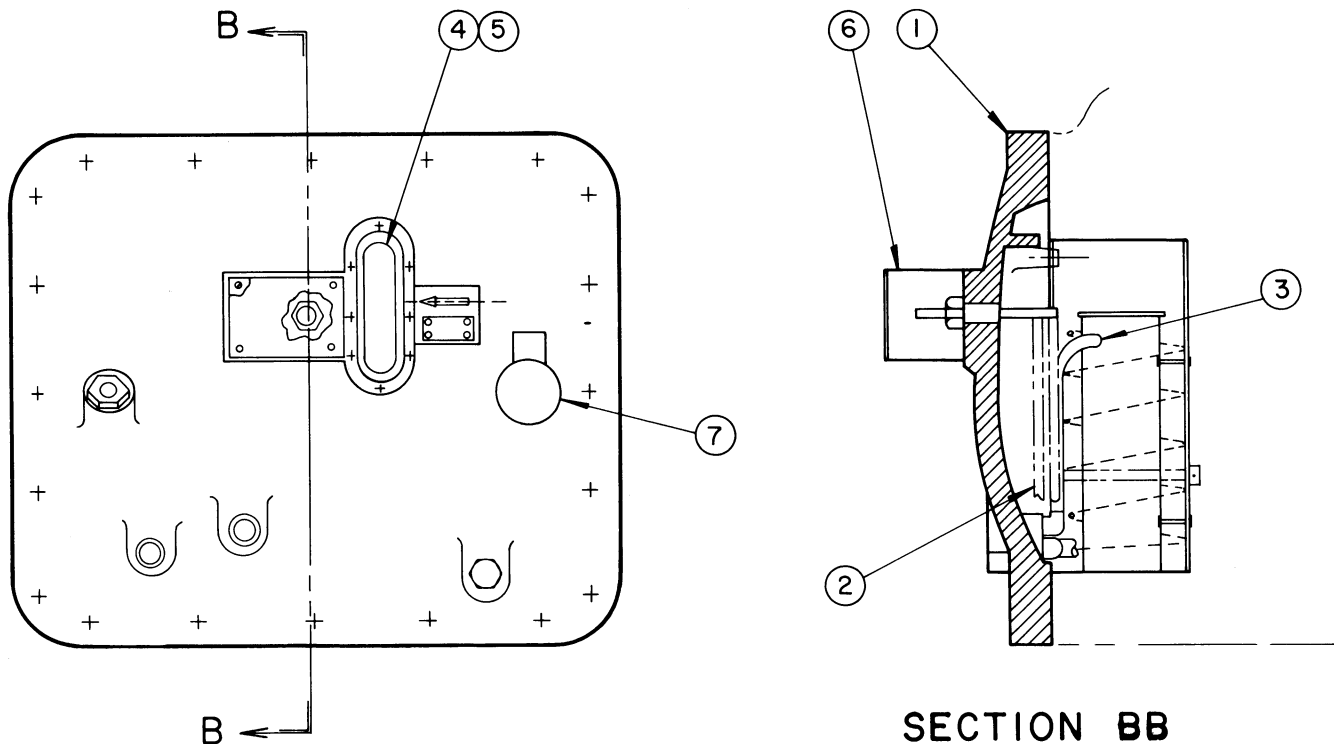
17M



Group K — Oil Pump Chambers Group (250 Watt Heater)

ITEM NO.	DESCRIPTION		QUANTITY	17M30&40 COMPRESSOR	QUANTITY	17M50&60 COMPRESSOR
1	*Oil Pump Chamber Cover and Coil Assembly Includes: Item #2 thru #6		1	17M42-784	1	17M42-784
2	Heating Coil and Plate Assembly	S	1	17M42-794	1	17M42-794
3	Oil Cooling Coil		1	17M32-1253	1	17M32-1253
4	Sight Glass	S	1	17M32-1502	1	17M32-1502
5	Sight Glass Gasket	S	2	R7-1729	2	R7-1729
6	Conduit Box (Less Cover)		1	17M32-242	1	17M32-242
7	Oil Pump Chamber Cover Gasket	S	1	17M32-1472	1	17M32-1472
8	Oil Pump Assembly		1	17M52-323	1	17M52-323
9	Oil Pump Shaft Pin	S	1	17M32-1091	1	17M32-1091

Note: When a complete Oil Pump Chamber Cover and Coil Assembly is required, order the complete assembly on page 33

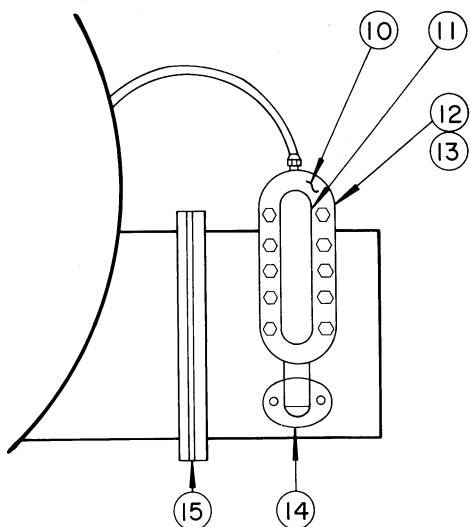
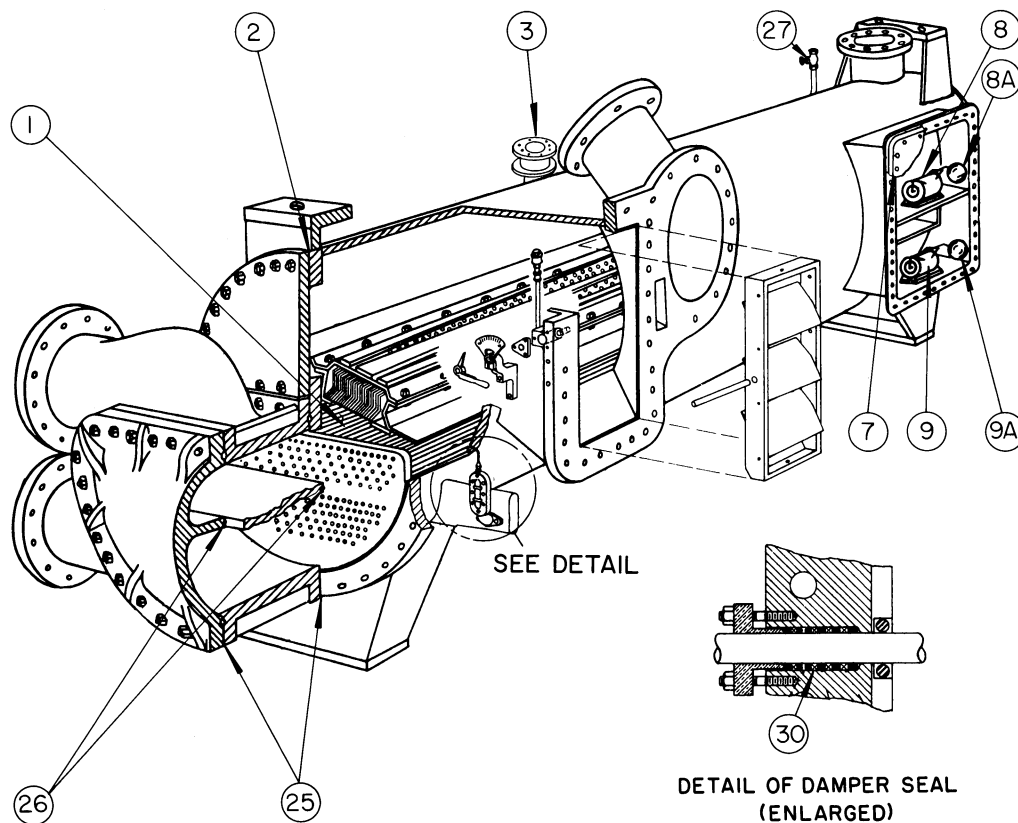


Group K — Oil Pump Chamber Group (1000 Watt Heater)

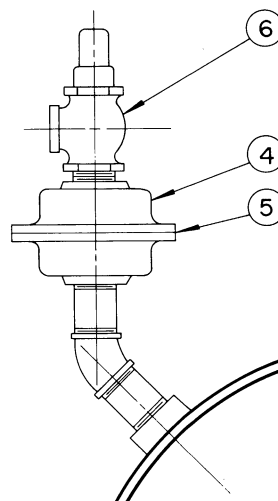
ITEM NO.	DESCRIPTION	QUANTITY	PART NUMBER
1	Oil Pump Chamber Cover and Coil Assembly (Explosion Proof)	1	17M32-348
	Includes:		
2	Heater Coil	1	17MA31-1503
3	Oil Cooling Coil	1	17M32-1253
4	Sight Glass	1	17M32-1502
5	Sight Glass Gasket	2	R7-1729
6	Conduit Box	1	17M32-2233
7	Thermoswitch	1	17M32-6941

OPEN DRIVE CENTRIFUGAL LIQUID CHILLER

17M



SIGHT GLASS ASSEMBLY 17Q3-264, 17Q8-264
USED BEFORE 4-13-59.

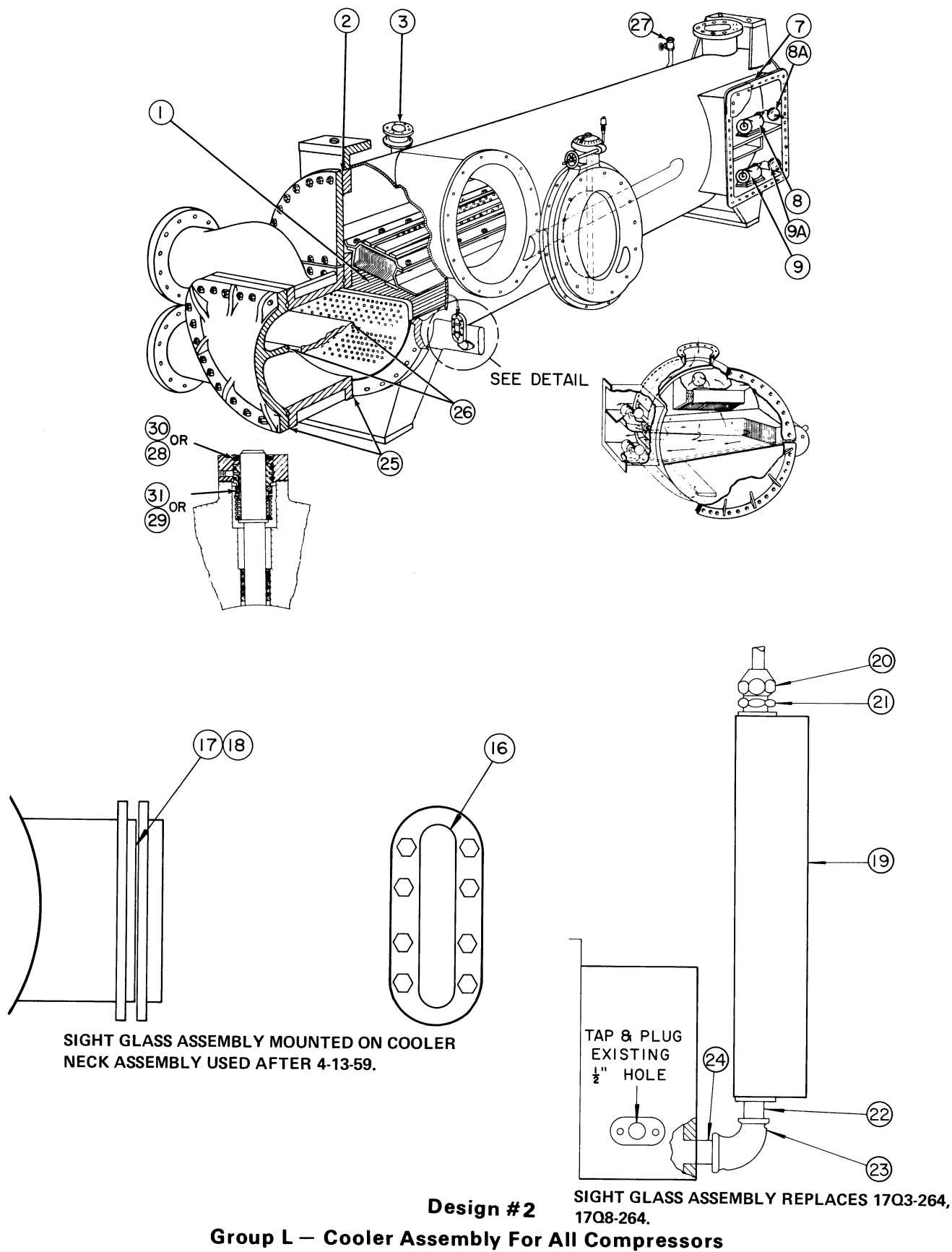


RUPTURE DISC ASSEMBLY USED PRIOR
TO MAY 1955.

Design #1 Group L — Cooler Assembly For All Compressors

OPEN DRIVE CENTRIFUGAL LIQUID CHILLER

17M





OPEN DRIVE CENTRIFUGAL LIQUID CHILLER

17M

ITEM NO.	DESCRIPTION	QTY	PART NUMBER	USED ON 17Q COOLER
COOLER ASSEMBLY GROUP "L"				
1	Cooler Tubes	158 181 205 235 267 307 348 403 455 523 593 682 772 891 1010 1106 1298	CONTACT SYRACUSE FOR PART NUMBERS	17Q3 17Q3.5 17Q4 17Q4.5 17Q5 17Q5.5 17Q6 17Q6.5 17Q7 17Q7.5 17Q8 17Q8.5 17Q9 17Q9.5 17Q10 17Q10.5 17Q11
2	Inspection Cover Gasket	2 2 2 2 2 1 2 1 1 1 1	17Q4-1212 17Q5-1212 17Q6-1212 17Q7-1212 17Q8-1212 17Q8-1212 17Q9-1212 17Q9-1212 17Q10-1212 17Q11-1212	17Q3 thru 17Q4 17Q4.5,5 17Q5.5,6 17Q6.5,7 17Q7.5 17Q8 17Q8.5 17Q9 17Q9.5,10 17Q10.5,11
3	Rupture Disc and Gasket Package	S 1 1	17Q4-317 17Q5-317	17Q3 thru 17Q8 17Q8.5 thru 17Q11
4	*Rupture Valve	1 1 1 2	R5-300 R9-300 R10-300 R10-300	17Q3 thru 17Q5.5 17Q6 thru 17Q7 17Q7.5 thru 17Q9 17Q9.5 thru 17Q11
5	*Rupture Disc	S 2 4	R5-010 R5-010	17Q3 thru 17Q9 17Q9.5 thru 17Q11
6	*Relief Valve (See Note)	1 1 1 1	17Q5-4091-109 17Q5-4091-109 17Q5-4091-97 17Q5-4091-97	17Q3 thru 17Q5 17Q5.5 thru 17Q7 17Q7.5 thru 17Q9 17Q9.5 thru 17Q11
7	Float Box Gasket	1 1 1	17Q3-2432 17Q6-2432 17Q8-2432	17Q3 thru 17Q5 17Q5.5 thru 17Q7 17Q7.5 thru 17Q11
8	Float Valve (Condenser)	1 1 1 1 1	17Q4-253A 17Q6-253A 17Q8-253 17Q11-753 19Q11-763	17Q3 thru 17Q4 17Q4.5 thru 17Q6 17Q6.5 and 17Q7 17Q7.5,8,8.5,9 10.5,11 17Q9.5 and 10
8A	Float Valve Ball	1 1	EC28HZ026 EC28HZ033	17Q3 thru 17Q6 17Q6.5 thru 17Q11

NOTE: A 1 1/2" x 1 1/4" Bushing is required when using 17Q5-4091-109 for EB51KP-400.



OPEN DRIVE CENTRIFUGAL LIQUID CHILLER

17M

ITEM NO.	DESCRIPTION	QUANTITY	PART NUMBER	USED ON 17Q COOLER
COOLER ASSEMBLY GROUP "L" (CONT'D)				
9	Float Valve Econ.	1 1 1 1 1	17Q4-253A 17Q6-253A 17Q8-253 17Q11-753 19Q11-763	17Q3 thru 17Q4 17Q4.5 thru 17Q6 17Q6.5,17Q7,17Q10 17Q7.5,8,8.5,9, 10.5,11 17Q9.5 & 10
9A	Float Valve Ball	1 1	EC28HZ026 EC28HZ033	17Q3 thru 17Q6 17Q6.5 thru 17Q11
10	Sight Glass Assembly (See Note #1)(17Q3-264) (17Q8-264)	1 1	Not Available See Note #3	17Q3 thru 17Q7 17Q7.5 thru 17Q11
11	Includes: Sight Glass (Reflex) (See Note #1)	S 1 1	17M32-1502 KM36BE015	17Q3 thru 17Q7 17Q7.5 thru 17Q11
12	Sight Glass Gasket (Outer) (See Note #1)	S 1 1	R7-1729 17Q8-2522	17Q3 thru 17Q7 17Q7.5 thru 17Q11
13	Sight Glass Gasket (Inner) (See Note #1)	S 1 1	R7-1729 17Q8-2532	17Q3 thru 17Q7 17Q7.5 thru 17Q11
14	Gasket (See Note #1)	1	17Q4-2231	17Q3 thru 17Q11
15	Gasket (See Note #1)	1	17Q10-2892	17Q3 thru 17Q11
16	Sight Glass (Reflex) (See Note #2)	S 1 1	17M32-1502 17Q8-2542	17Q3 thru 17Q7 17Q7.5 thru 17Q11
17	Sight Glass Gasket (Outer) (See Note #2)	S 1 1	R7-1729 17Q8-2522	17Q3 thru 17Q7 17Q7.5 thru 17Q11
18	Sight Glass Gasket (Inner) (See Note #2)	S 1 1	R7-1729 17Q8-2532	17Q3 thru 17Q7 17Q7.5 thru 17Q11
19	Sight Glass (See Note #3)	1	KM37BL215	17Q3 thru 17Q11
20	3/8 Flare Nut (See Note #3)	2	By Locally	17Q3 thru 17Q11
21	Half Union Coupling (See Note #3) 3/8 O.D. Flare X 3/8 NPT	2	By Locally	17Q3 thru 17Q11
22	Close Nipple 1/2" (See Note #3)	1	By Locally	17Q3 thru 17Q11
23	Reducing Elbow 3/4" X 1/2" (See Note #3)	1	By Locally	17Q3 thru 17Q11
24	3/4 Short Nipple (See Note #3)	1	By Locally	17Q3 thru 17Q11
25	Water Box Gasket	S ** ** ** ** ** ** ** **	17Q4-1222 17Q5-1222 17Q6-1222 17Q7-1222 17Q8-1222 17Q9-1222 17Q10-1222 17Q11-1222	17Q3,3.5,4 17Q4.5,5 17Q5.5,6 17Q6.5,7 17Q7.5,8 17Q8.5,9 17Q9.5,10 17Q10.5,11
26	Division Plate Gasket	S ***	QR02-2-14	17Q3 thru 17Q11



OPEN DRIVE CENTRIFUGAL LIQUID CHILLER

17M

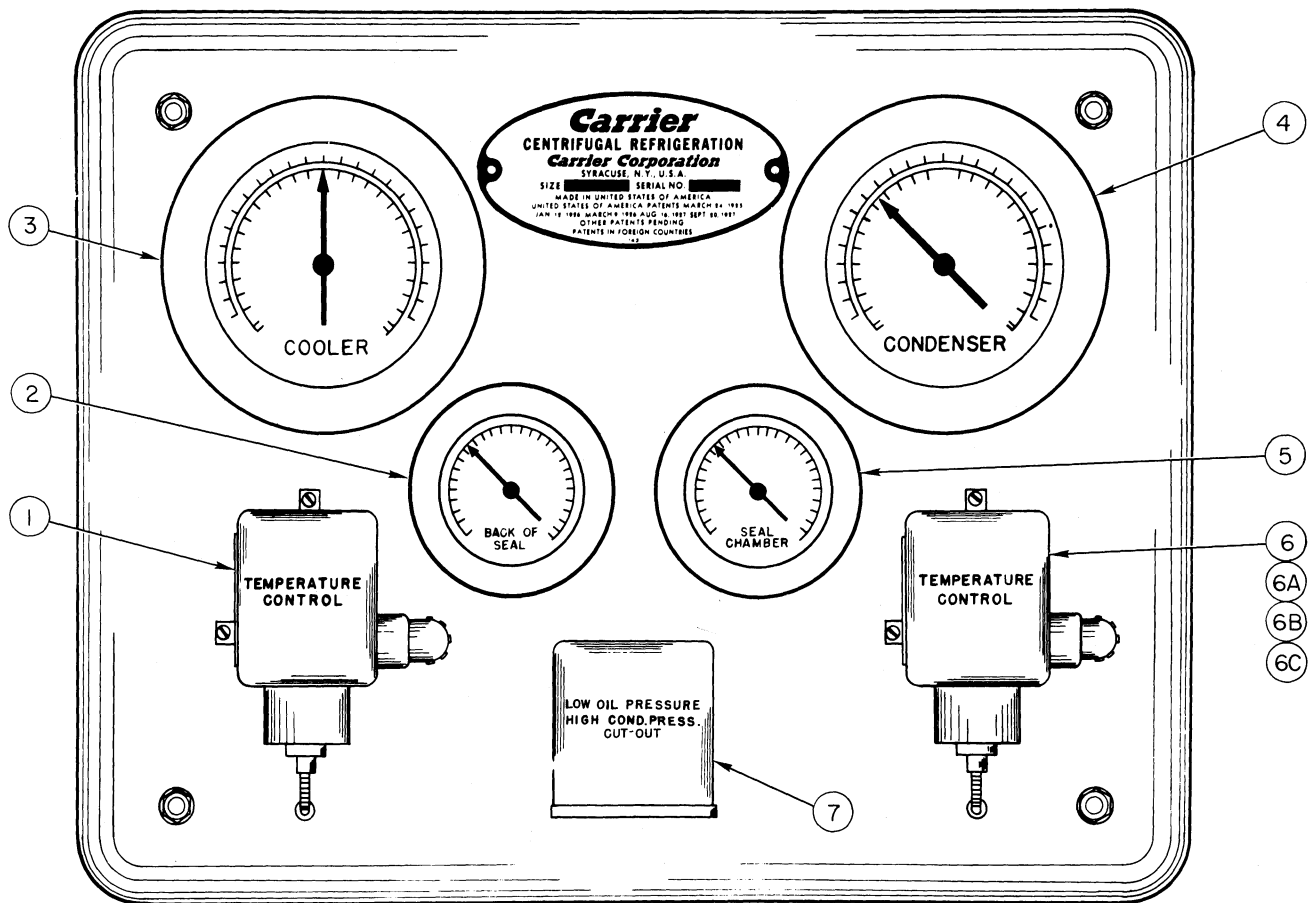
ITEM NO.	DESCRIPTION	QUANTITY	PART NUMBER	USED ON 17Q COOLER
COOLER ASSEMBLY GROUP "L" (CONT'D)				
27	Charging Valve	1	ER32BW090	17Q3 thru 17Q11
28	Oil Shaft Seal (30 & 40 Compressor) See Note #7	1	KT90CN100	17Q3 thru 17Q11
29	Refrig., Shaft Seal (30 & 40 Compressor) See Note #7	1	KT95PZ138	17Q3 thru 17Q11
30	Hard and Soft Packing Ring (50 & 60 Compressor) See Note #8	1	KK72EZ084	17Q3 thru 17Q11
	"V" Ring Packing See Note #9	2	KK71HT020	17Q3 thru 17Q11
31	"V" Ring Packing (30 Compressor)	1	KK71HT018	17Q3 thru 17Q11
	(30 Compressor)	1	KK71HT019	17Q3 thru 17Q11
	See Note #10 (40 Compressor)	1	KK71HT026	17Q3 thru 17Q11
	(40 Compressor)	1	KK71HT027	17Q3 thru 17Q11

NOTES:

- 1) Item number 10, 11, 12, 13, 14 and 15 were used prior to April 1959.
- 2) Item number 16, 17, 18 were used after April 1959.
- 3) Item number 19, 20, 21, 22, 23, and 24 were used to replace item number 10, 11, 12, 13, 14 and 15.
- 4) *These items were used prior to May 1955.
- 5) ** (3) three required for (2) two or (4) four pass.
- 6) ***Part number shown per running foot, order the number of feet required.
- 7) Used on Compressor with serial number 14470 and lower.
- 8) Hard and Soft Packing Rings used on Compressors with oil cup, (approx. 1964)
- 9) "V" Ring Packing used on Compressors without oil cup, (approx. 1964)
- 10) Used on Compressor with serial number 14471 and higher.

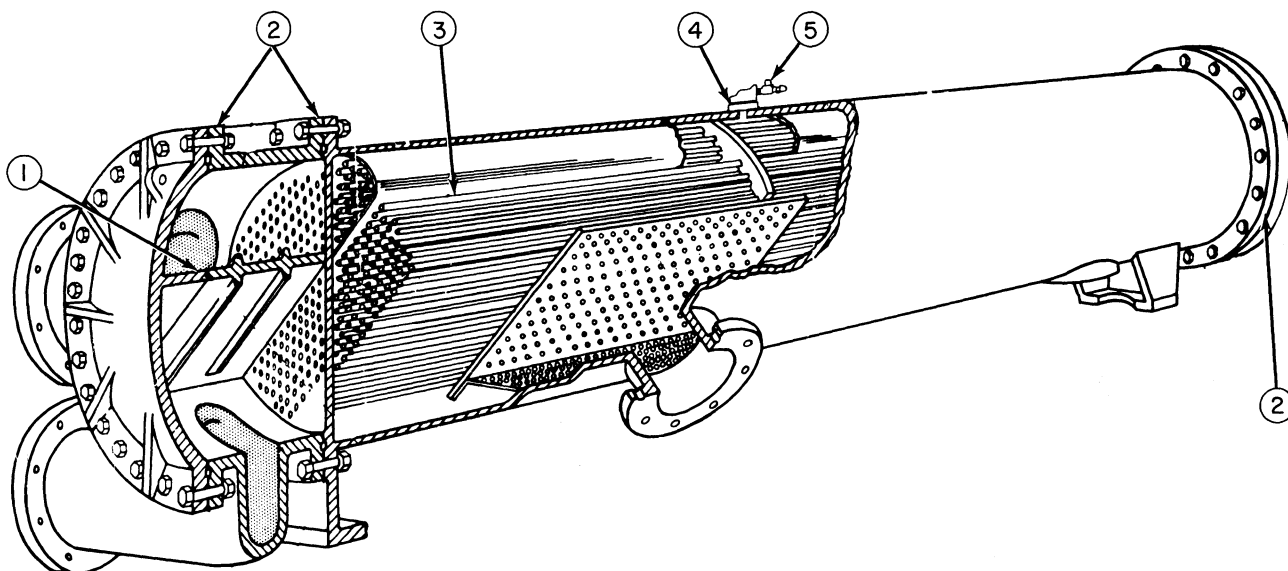
OPEN DRIVE CENTRIFUGAL LIQUID CHILLER

17M



Group M — Control Panel

ITEM NO.	DESCRIPTION		QUANTITY	PART NUMBER
1	Chilled Water Temperature Control	S	1	HH24AB004
NS	Gland Nut, and Washer		1	HH93AB004
2	Back of Seal Gauge (30" - 30#)		1	KM03AQ333
3	Cooler Gauge (30" - 30#)		1	KM03AQ631
4	Condenser Gauge (30" - 30#)		1	KM03AQ630
5	Seal Chamber Gauge (30" - 30#)		1	KM03AQ332
6	Low Refrigerant Temperature Control	S	1	HH24AB004
6A	Packing Gland		1	17Q3-1971
6B	Gland Nut		1	17Q3-1981
6C	Packing (18" Round Braided)	S	1	17M30-2471
7	Low Oil and High Condenser Pressure Cutout	S	1	HK04HN052



Group N — Condenser Assembly



OPEN DRIVE CENTRIFUGAL LIQUID CHILLER

17M

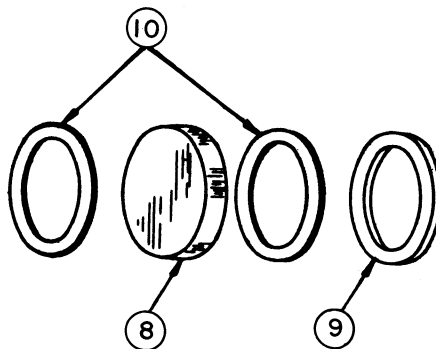
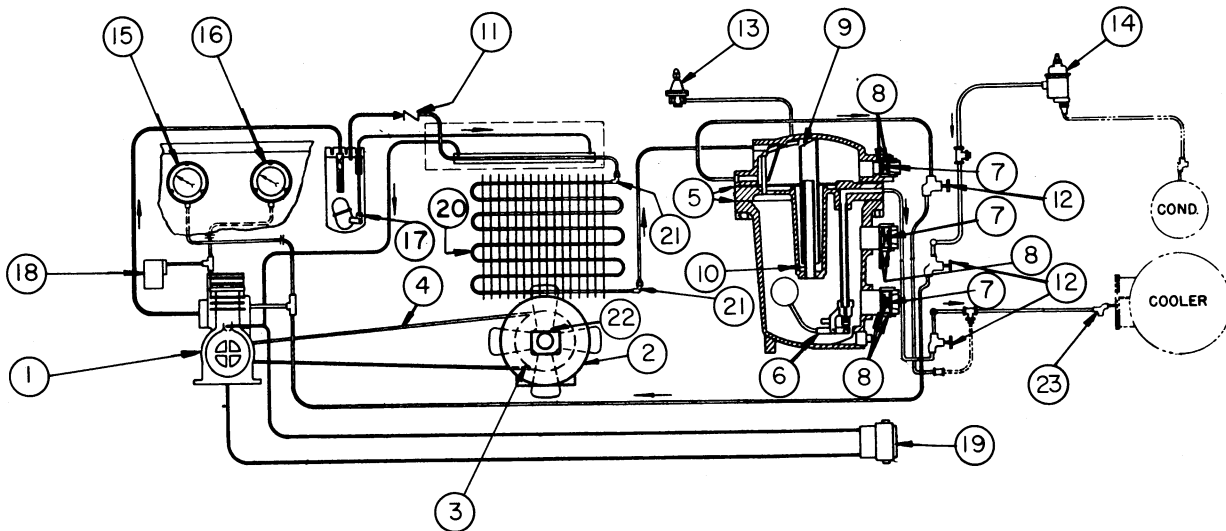
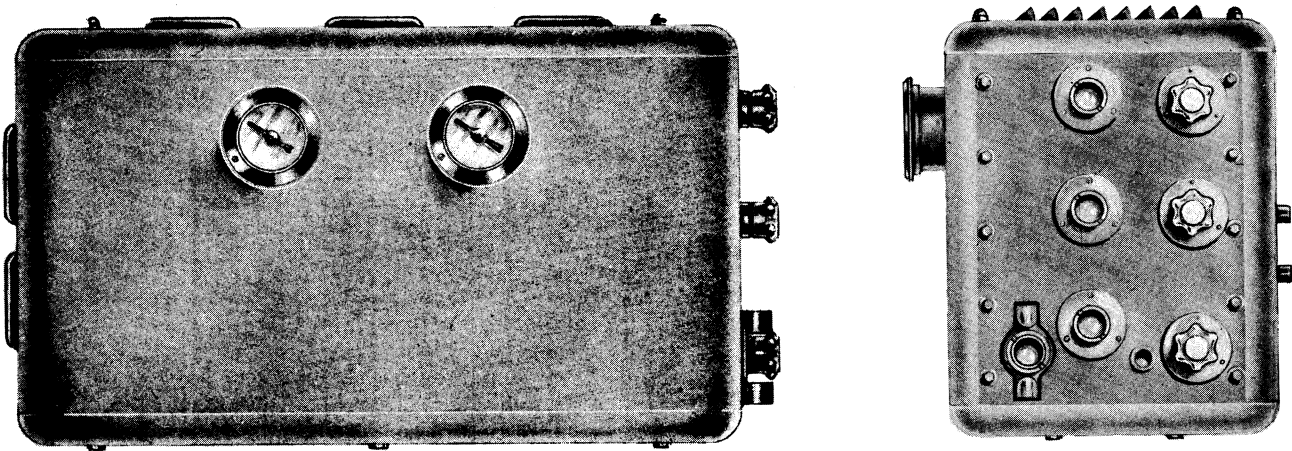
ITEM NO.	DESCRIPTION	QUANTITY	PART NUMBER	USED ON CONDENSER 17R
CONDENSER ASSEMBLY GROUP "N"				
1	Division Plate Gasket S	*	QR02-2-14	All Condensers
2	Water Box Gasket (24 Holes) S	**	17R4-1126	17R3,3.5,4
	(28 Holes)	**	17R5-1126	17R4.5,5,5.5,6
	(30 Holes)	**	17R6-1126	17R5.5,6
	(28 Holes)	**	17R6-1126A	17R5.5,6
	(30 Holes)	**	17R7-1126	17R6.5,7
	(28 Holes)	**	17R7-1126A	17R6.5,7
	(32 Holes)	**	17R8-1126	17R7.5,8
	(38 Holes)	**	17R9-1126	17R8.5,9
	(36 Holes)	**	17R9-1126A	17R8.5,9
	(40 Holes)	**	17R10-1126	17R9.5,10
	(44 Holes)	**	17R11-1126	17R10.3,11
3	Tubes 3/4" Copper Skip Fin	141 162 184 212 240 276 311 358 406 468 530 612 695 802 908 1044 1180	*Contact Syracuse for Part No. ↓	17R3 17R3.5 17R4 17R4.5 17R5 17R5.5 17R6 17R6.5 17R7 17R7.5 17R8 17R8.5 17R9 17R9.5 17R10 17R10.3 17R11
4	Purge Outlet Gasket S	1	17F7-6361	All Condensers
5	Angle Valve (Purge Outlet) S	1	EP22LA210	All Condensers

Notes: *Part number shown per running foot, order number of feet required.

**Three (3) required for two (2) or four (4) pass; or four (4) required for three (3) pass.

OPEN DRIVE CENTRIFUGAL LIQUID CHILLER

17M



Design #1
Group P — Type "L" Purge
Used With All Compressors Prior to May 1955



OPEN DRIVE CENTRIFUGAL LIQUID CHILLER

17M

ITEM NO.	DESCRIPTION	QTY	PART NUMBER	REMARKS
TYPE "L" PURGE (DESIGN #1) GROUP "P"				
1	Compressor Assembly (Less Fly Wheel)	1	7L1-A249	
2*	Electric Motor 115/230-1-60; 1/2 Hp	1	HC43AZ601	5/8" Dia. Shaft
	115/230-1-50; 1/2 Hp	1	HC43AZ602	5/8" Dia. Shaft
	208V-3-60; 1/2 Hp	1	HD43DE208	5/8" Dia. Shaft
	230/460V-3-60; 1/2 Hp	1	HD43DE851	5/8" Dia. Shaft
3	Motor Pulley (For D.C. and 60Hz Motors)	1	17R3-1186	Specify if motor is over 1/2 HP
	(For 25 and 50Hz Motors)	1	17R3-1646	Specify if motor is over 1/2 HP
4	"V" Belt	S 1	KR20BC040	For DC or 60HZ Motors
		1	KR20BC041	For 25 or 50HZ Motors
5	Separation Chamber Cover Gasket	S 2	17R3-1291	
6	Float Valve Assembly	S 1	17R3-501	
	Includes:			
6A	Float Valve Ball (Only)	1	EC28HZ023	
6B	Float Valve Seat	S 1	17R3-1181	
6C	Float Valve Plunger	1	19P47-4381	
7	Sight Glass	S 3	KM36AW105	
8	Sight Glass Gaskets (Pkg. of 5)	S 2	R5-1004-005	
9	Over Flow Tube	1	17R3-1251	
10	Over Flow Pipe	1	17R3-1261	
11	Check Valve Assembly (Superior)	S 1	EC37GF001	Also replaces
	Includes:			Jenkins Valve
11A	Check Valve Seat (Superior)	1	EC39GF901	
12	Line Valve (2 Way)	S 3	EP10AA212	
13	Relief Valve (Cash 1/2")	S 1	EB51HH080	
	Includes:			
13A	Relief Valve Diaphragm and Seat	S 1	EB59HH001	
13B	Relief Valve Seal (Neoprene) only	S 1	EB59HH002	
13C	Relief Valve Diaphragm Gasket (Upper)	S 1	EB59HH003	
13D	Relief Valve Diaphragm Gasket (Lower)	S 1	EB59HH004	
14	Pressure Reducing Valve	S 1	EB02680001	In back of Purge Unit
15	Suction Pressure Gauge (30" - V-100#P)	1	KM03AQ350	



OPEN DRIVE CENTRIFUGAL LIQUID CHILLER

17M

ITEM NO.	DESCRIPTION	QUANTITY	PART NUMBER	REMARKS
TYPE "L" PURGE (DESIGN #1) GROUP "P" (CONT'D)				
16	Discharge Pressure Gauge (0-100#P)	1	KM01AQ360	
NS	Oil Separator (See Note #5)	1	17Q4-001-1	
NS	Float, Needle & Seat Repair Pkg. (For 17Q4-001-1 Oil Separator)	1	17Q4-001-2	
17	Oil Separator (See Note #6) Includes:	1	Not Available	
17A	Inlet Screen	1	KH31LY-001	
17B	Outlet Screen	1	KH31LY-002	
17C	Head to Shell Gasket	1	KH31LY-003	
17D	Float Valve Assembly	1	KH31LY-004	
18	High Pressure Cutout Switch	1	HK02ZA-110	
19	Compressor Oil Level Sight Glass Assembly Includes:	1	17R3-106	
19A	Sight Glass Reflector	1	17R3-1245	
19B	Sight Glass	1	KM36AW105	
19C	Sight Glass Gasket	1	R5-1004-005	
20	Condenser Assembly (Less Fittings)	1	17R3-103	(Air Cooled)
21	90° Elbow - 3/8"	2	DE18CA101	(Condenser Fittings)
22	Fan Assembly	1	LA01DZ083	(Motor Pulley)
23	Angle Valve	1	EP23LA155	(Float Box Side)

Notes: 1) This Purge was used prior to May 1955.

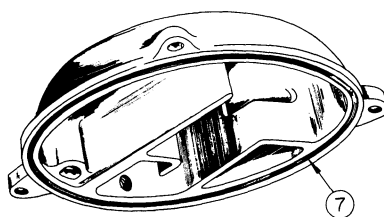
2) *With these Motors, the Motor Pulley may have to be changed or bushed down to fit the shaft.

3) When ordering Motors give voltage, phase and cycle and shaft diameter.

4) If a complete separation chamber is required, order Item #6 on Page #46.

5) Oil Separator (KH31LZ-006) is no longer available and has been replaced by the 17Q4-001-1 oil separator.

6) All listed components for this separator are still available.





OPEN DRIVE CENTRIFUGAL LIQUID CHILLER

17M

ITEM NO.	DESCRIPTION	QTY	PART NUMBER	REMARKS
TYPE "L" PURGE (DESIGN #2) GROUP "P"				
1	Compressor Assembly	1	7L1-A249	Less Fly Wheel
2	Oil Reservoir	1	17R3-508	
3	Includes: Sight Glass Assembly	1	17F9-792	
3A	Includes: Sight Glass S	1	KM36AW105	
3B	Sight Glass Gasket (Pkg. of 5)S	1	R5-1004-005	
4	Suction Pressure Gauge (30"-V-100#P)	1	KM03AQ350	
5	Discharge Pressure Gauge (0-100#P)	1	KM01AQ-360	
6	Separation Chamber	1	19P47-153	
7	Includes: "O" Ring S	1	KK71GW088	Purge Pot
8	"O" Ring S	1	KK71GZ-038	Float Valve Cover
9	Float Valve Assembly	1	19P47-163	
10	Includes: Seat S	1	17R3-1181	
NS	Plunger S	1	19P47-4381	
11	Float Ball	1	EC28HZ023	
12	Sight Glass S	2	KM36AW105	
13	Sight Glass Gasket (Pkg. of 5) S	1	R5-1004-005	
NS*	Separation Chamber	1	See Note #1	Not Available
NS*	Includes: Separation Chamber Gasket S	2	17R3-1291	
NS*	Float Valve Assembly S	1	17R3-501	
NS*	Includes: Seat S	1	17R3-1181	
NS*	Plunger S	1	19P47-4381	
NS*	Float Ball (Only)	1	EC28HZ023	
NS*	Sight Glass S	3	KM36AW105	
NS*	Sight Glass Gasket (Pkg. of 5) S	2	R5-1004-005	
22	Hi-Pressure Cutout	1	17Q6-4072-12	
23	Relief Valve (Cash 1/2") S	1	EB51HH080	
23A	Includes: Relief Valve Diaphragm S	1	EB59HH001	
23B	Relief Valve Seat (Neoprene)only S	1	EB59HH002	
23C	Relief Valve Diaphragm Gasket (Upper) S	1	EB59HH003	
23D	Relief Valve Diaphragm Gasket (Lower) S	1	EB59HH004	
24	Reducing Valve S	1	EB02680001	
25	Angle Valve	1	EP22LA210	
26	Diaphragm Valve S	3	EP10AA212	
27	Condenser S	1	17R3-103	
28	Oil Separator (Replaces KH31LZ-006)	1	17Q4-001-1	
NS	# Float, Needle & Seat Repair Pkg.	1	17Q4-001-2	



OPEN DRIVE CENTRIFUGAL LIQUID CHILLER

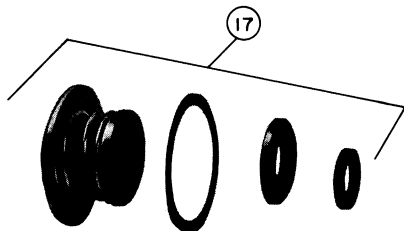
17M

ITEM NO.	DESCRIPTION	QUANTITY	PART NUMBER	REMARKS
TYPE "L" PURGE (DESIGN #2) GROUP "P" (CONT'D)				
28	Oil Separator (KH31LZ-006) Includes:	1	Not Available	
28A	Inlet Screen S	1	KH31LY001	
28B	Outlet Screen S	1	KH31LY002	
28C	Head to Shell Gasket S	1	KH31LY003	
28D	Float Valve Assembly S	1	KH31LY004	
NS	**Electric Motor			
	115/230-1-60; 1/2 Hp	1	HC43AZ601	5/8" Dia. Shaft
	115/230-1-50; 1/2 Hp	1	HC43AZ602	5/8" Dia. Shaft
	208V-3-60; 1/2 Hp	1	HD43DE208	5/8" Dia. Shaft
	230/460-3-60; 1/2 Hp	1	HD43DE851	5/8" Dia. Shaft
NS	Motor Pulley			
	(For DC and 60 Hz Motor)	1	17R3-1186	
	(For 25 and 50 Hz Motor)	1	17R3-1646	
NS	"V" Belt S	1	KR20BC040	For DC or 60 Hz Motors
		1	KR20BC041	For 25 and 50 Hz Motors

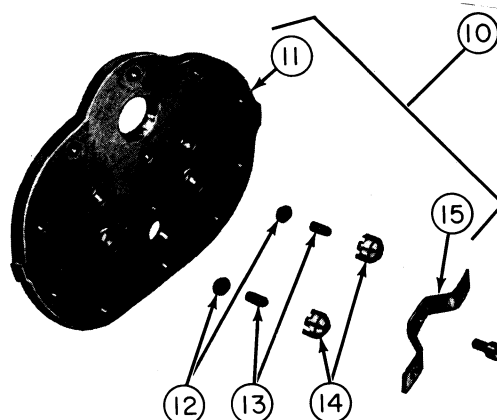
NOTES:

- 1) Any part marked with an (*) was used prior to April 1955.
If a complete separation chamber is required, order Item #6.
- 2) When ordering Motors, give voltage, phase, cycle and shaft diameter.
- 3) **With these Motors, the Motor Pulley may have to be changed or bushed down to fit the shaft.

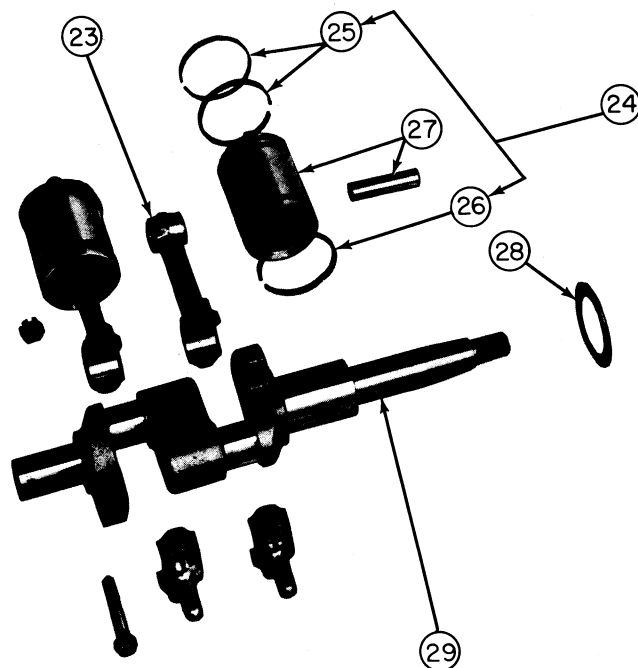
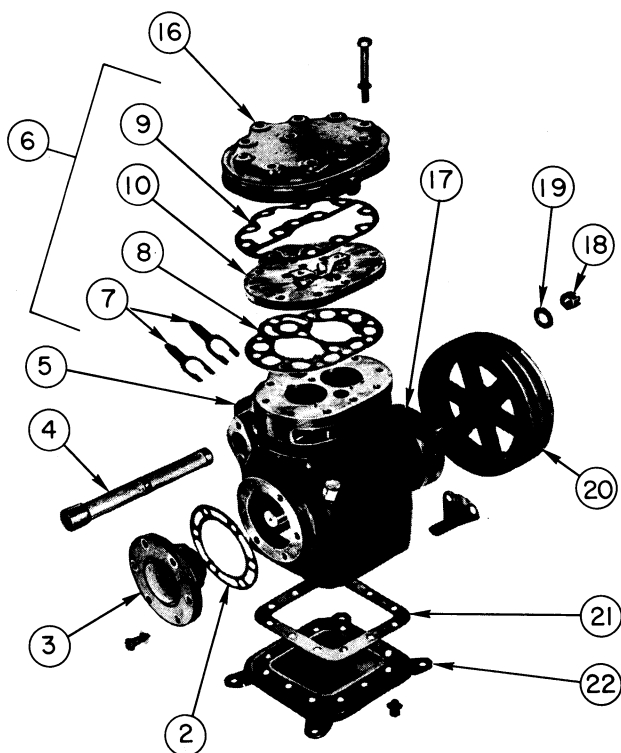
(#) For 17Q4-001-1 Oil Separator



**Seal Replacement Packet
(Including Gasket)**



Discharge Valve Plate Assembly



Group Q — Purge Compressor Parts



OPEN DRIVE CENTRIFUGAL LIQUID CHILLER

17M

ITEM NO.	DESCRIPTION	QUANTITY	PART NUMBER	REMARKS
TYPE "L" PURGE COMPRESSOR ONLY GROUP "Q"				
1	Replacement Compressor Includes:	1	7L1-A249	Less Fly Wheel
2	Crankcase End Cover Gasket S	1	7H1-1192A	
3	Crankcase End Cover	1	7H1-0032A	
4	Suction Screen S	1	7L1-792	
5	Crankcase	1	7L1-0019A	
6	Valve Plate and Gasket Package S	1	7L1-371	
7	Suction Valve (2) 7L1-8452			
8	Lower Gasket (1) 7L1-1132			
9	Upper Gasket (1) 7L1-1122			
10	Valve Plate Assembly (1) NSS			
11	Includes: Valve Plate (1) NSS			
12	Valve Disc (2) 7J1-8462			
13	Valve Spring (2) 7J1-8502			
14	Valve Guide (2) 7J1-8482			
15	Valve Guide Clamp (1) 7L1-8712			
16	Cylinder Head	1	7L1-8423	
17	Seal Replacement Package S	1	7F0-926	
18	Fly Wheel Locknut	1	AT21AA302012	Package of 12
19	Fly Wheel Washer	1	AU02AA301	
20	Fly Wheel 8" Dia.	1	7H1-0132A	
21	Bottom Plate Gasket S	1	7J1-3982	
22	Bottom Plate	1	7J1-3972	
23	Connecting Rod Assembly S	2	7L1-187	
24	Piston Ring Package Assembly S	1	7H1-457	
25	Includes: Upper Piston Rings (4) 7H1-0082			
26	Lower Piston Rings (4) 7H1-1952			
27	Piston and Ring Assembly S	2	7L1-846	Less Rings
28	Crank Shaft Washer S	1	7H1-2172	
29	Crank Shaft S	1	7H1-2163A	
NS	Compressor Repair Package	1	7L1-411	
NS	Includes: Piston Rings (4) 7H1-0082			
NS	Piston Rings (Oil) (2) 7H1-1952			
NS	Suction Valve (2) 7L1-8452			
NS	Discharge Valve (2) 7J1-8462			
NS	Discharge Valve Spring (2) 7J1-8502			
NS	Upper Discharge Valve (1) 7L1-1122			
NS	Plate Gasket			



OPEN DRIVE CENTRIFUGAL LIQUID CHILLER

17M

ITEM NO.	DESCRIPTION	QUANTITY	PART NUMBER	REMARKS
TYPE "L" PURGE COMPRESSOR ONLY GROUP "Q" (CONT'D)				
	Compressor Repair Package (Cont'd)			
NS	Lower Discharge Valve Plate Gasket (1) 7L1-1132			
NS	Bottom Plate Gasket (1) 7J1-3982			
NS	Oil Separator Gasket (1) KH31LY003			
NS	Washers (33) AU51YA003012			
NS	Gaskets (15') 7L1-A152			



OPEN DRIVE CENTRIFUGAL LIQUID CHILLER

17M

ITEM NO.	DESCRIPTION	PART NUMBER
MISCELLANEOUS PARTS		
1	5 Gallon Can of Oil	PP23BB005
2	Tube Cleaning Brush	KC21AH105
3	Diffuser Holding Screw	17F9-2721
4	Steel Wedges (24)	N/A
5	Tool Bag for use with 17M30 and 40 Compressor Includes: Coupling Puller Assembly (1) Spanner Wrench Assembly (3 Pin) (1) Washer (2) Tap Bolt (2) Tap Bolt (2) Tap Bolt (2) Tap Bolt (2) Hex Nut (2) Hex Nut (2) Hex Nut (2) Hex Nut (2) Washer (2) Washer (2) Washer (2) Washer (2) Booney Coupling Wrench (1) Armstrong Face Spanner (1) Armstrong Pin Spanner (1) Armstrong Pin Spanner (1)	17M31-652 17M30-422 17M32-142 17M30-2061 AH14AA177 AH14AA207 AH14AA239 AH14AA301 AT39AA171 AT39AA201 AT39AA241 AT11AA301 AU01AA171 AU01AA201 AU01AA241 AU01AA301 KC77VE107 KC93QS024 KC93QS064 KC93QS066
6	Tool Bag for use with 17M50 and 60 Compressor Includes: Coupling Puller Assembly Coupling Spanner (3 Pin) Tap Bolt (2) Tap Bolt (2) Tap Bolt (2) Tap Bolt (2) Hex Nut (2) Hex Nut (2) Hex Nut (2) Hex Nut (2) Washer (2) Washer (2) Washer (2) Washer (2) Armstrong Pin Spanner (1) Armstrong Pin Spanner (1) Armstrong Pin Spanner (1)	17M51-652 17M50-422 17M52-142 AH14AA177 AH14AA207 AH14AA239 AH14AA301 AT39AA171 AT11AA201 AT11AA241 AT11AA301 AU01AA171 AU01AA201 AU01AA241 AU01AA301 KC93QS064 KC93QS069 KC93QS034



OPEN DRIVE CENTRIFUGAL LIQUID CHILLER

17M

ITEM NO.	DESCRIPTION	QUANTITY	PART NUMBER
MISCELLANEOUS PARTS (CONT'D)			
	<u>SHIM PLATES, SHIM STOCK</u>		
7	Shim Plate Set (Steel) (1) each 2" x 4" x 1/8" x 1/4" x 1/2" x 1"	(2) Sets	17M30-432
8	Shim Stock Set (Brass Sheet) (1) 8" x 36" x 1/16" x 1/64" x .010", .005"	(1) Set	17M30-442
9	Shim Stock (Brass Sheets) For Compressor only	(1) Set	17M31-593 17M41-593 17M51-593 17M61-593
10	Labyrinth Pointing Tool Set	(1) Set	T11488C
11	Labyrinth Caulking Tool Set	(1) Set	T38049B

NOTE: Address all inquiries to the nearest Carrier Field Office or:

Carrier Air Conditioning Company

Parts-Center

P.O. Box 845

Syracuse, New York 13201