



HERMETIC CENTRIFUGAL CHILLER

19EF

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COMPRESSOR NAMEPLATE

MACHINE NAMEPLATE



HERMETIC CENTRIFUGAL CHILLER

19EF

CODE NUMBER BREAKDOWN

1	2	3	4	5	6	7	8	9	10	11	12	13
MODEL				COOLER COND'R		COMP'R		MOTOR		BASE		
				LENGTH		LENGTH		CODE		CODE		
1	9	E	F	1	9	2	2	5	1	D	F	1

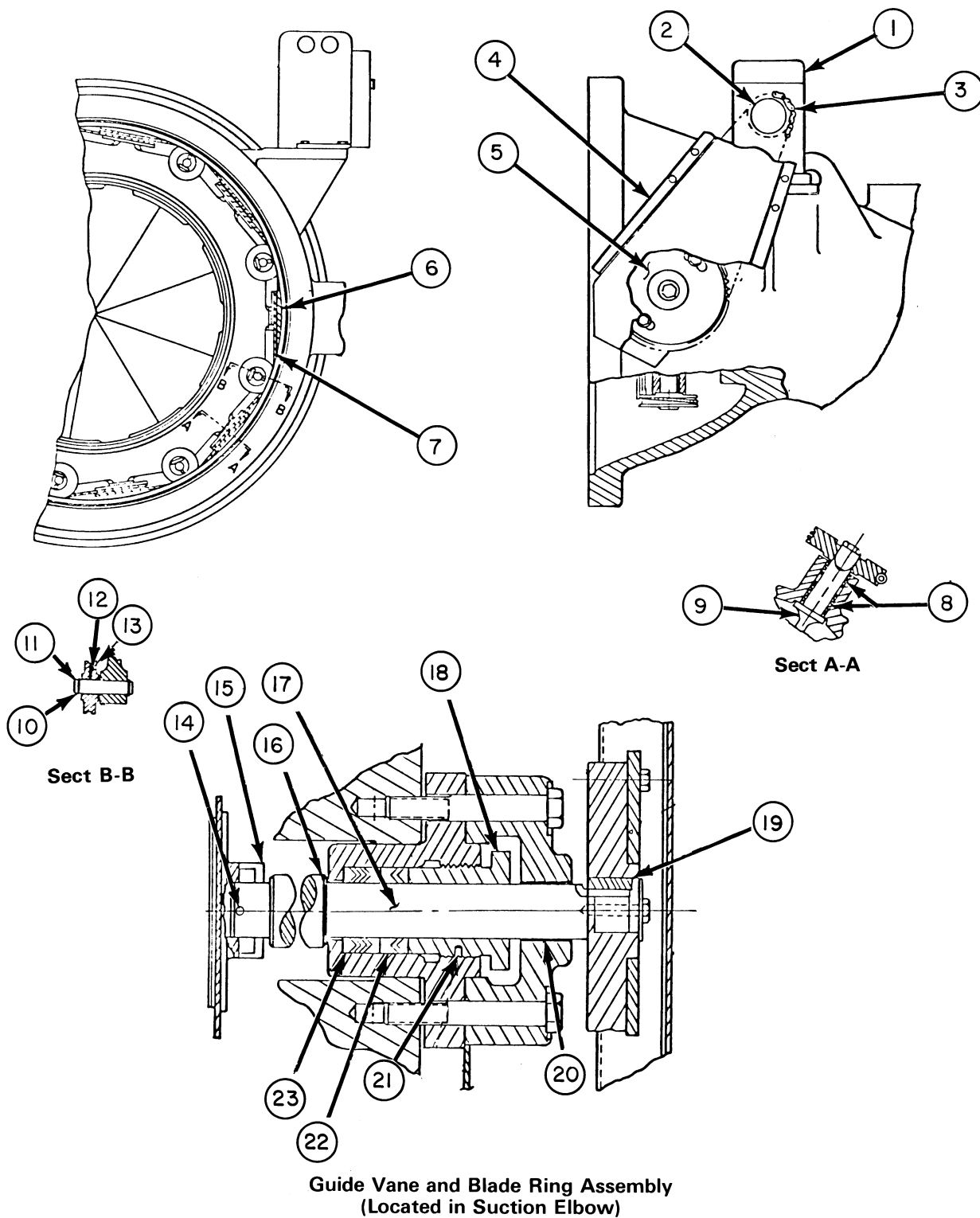
EXAMPLE: THE ABOVE UNIT IS A 19EF WITH 700 TON 12'-3" COOLER, 1000 TON CONDENSER, 51 SIZE COMPRESSOR W/ A3 SHROUD & IMPELLER DIA. OF 12.00" AND MOTOR DESIG. OF DF.

19EF COOLER COND. COMPR MOTOR BASE CODE NUMBER

FRAME SIZE	NOM. TONS	12'-3"	17'-1"	FRAME SIZE	NOM. TONS	CODE	COMPRESSOR	MOTOR	MOTOR	BASE
4	700	19	49	4	800	20	SHROUD SIZE	IMPELLER DIAMETER	MOTOR CODE	MOTOR SIZE
	800	20	50		51	A 3	12.00	DF	D6	
	900	21	51		53		12.38	DG	D7	
5	1000	22	52	5	1000	22	55	12.75	DH	D8
	1100	24	54		57		13.25	DJ	D9	
	1200	25	55		59		13.75	DK	D10	
	1300	26	56		61	A 4	12.00	DL	D11	
					63		12.38	DM	D12	
6	1400	27	57	6	1400	27	65	12.75	DN	D13
	1500	28	58		67		13.25	DP	D14	
	1600	29	59		69		13.75	DQ	D14.6	
7				7	1600	30	71	A 5	12.00	
					73		12.38			
					75		12.75			
					77		13.25			
					79		13.75			
8				8			81	A 6	12.00	
							12.38			
							12.75			
							13.25			
							13.75			

1-INTEGRAL SHIP WITH STORAGE TANK
2-INTEGRAL SHIP WITH BASE
3-SHIP SEPERATE WITH STORAGE TANK
4-SHIP SEPERATE WITH BASE

POSSIBLE COOLER CONDENSER COMBINATIONS	
COOLER	CONDENSER
4	4 OR 5
5	4,5 OR 6
6	5,6 OR 7





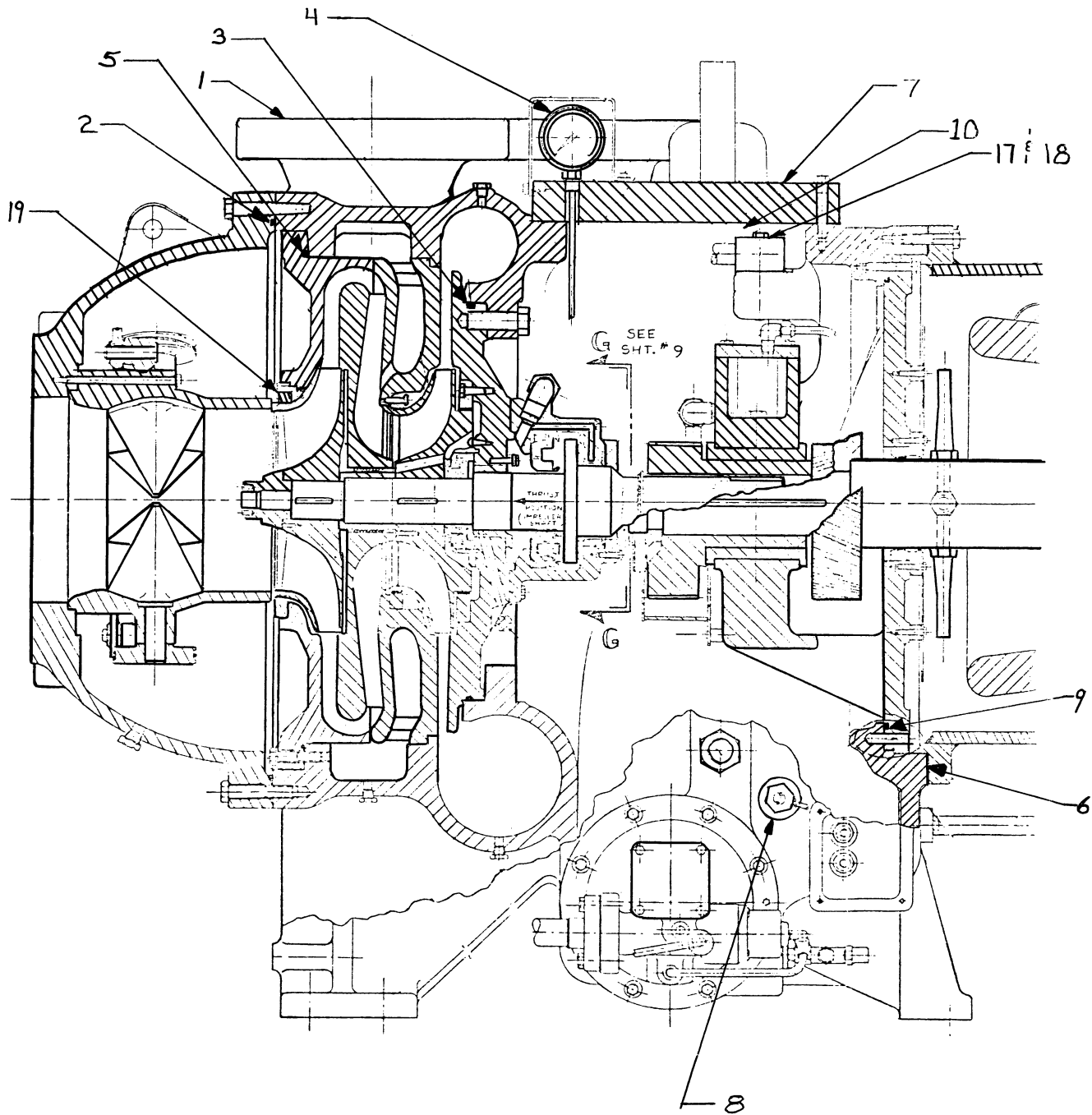
HERMETIC CENTRIFUGAL CHILLER

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ITEM NO.	PART DESCRIPTION	QTY	LDC	PART NUMBER	USED ON
GUIDE VANE AND BLADE RING ASSEMBLY					
1	MOTOR ACTUATOR	1	AC	--HF--26BB-057--	19EB5
	INCLUDES:				
	FEEDBACK POT	1	AC	--HT--24AZ-120--	19EB5
2	SPROCKET, ACUTATOR	1	AC	17FA-502--1692--	19EB5
3	CHAIN	1	NS	19EA--51--2482--	19EB5
4	CHAIN, GUARD ASSEMBLY	1	NS	17FA-512---303--	19EB5
5	SPROCKET, GUIDE VANE	1	AC	17FA-512--1543--	19EB5
	BLADE RING ASSEMBLY	1	NS	19EA--53---467--	SHROUD A3
		1	AC	19EA--55---467--	SHROUD A4
		1	AC	19EA--57---467--	SHROUD A5
		1	NS	19EA--59---467--	SHROUD A6
6	CABLE ASSEMBLY	1	AC	19EA--51---102--	19EB5
7	PULLEY, DRIVE	1	AC	19EA--51--1003--	19EB5
8	BUSHING	14	AC	--KT--53XL-102--	19EB5
9	BLADE, PRE-WHIRL ASSEMBLY	7	AC	19EA-660---017--	19EB5
	INCLUDES:				
	ONE (1) EACH BLADE, PULLEY				
	WASHER, BOLT				
10	WASHER, THRUST	7	NS	--AU--02AA-332--	19EB5
11	PIN	7	AC	19EA--51--2022--	19EB5
12	BUSHING	7	AC	--KT--53XL-065--	19EB5
13	PULLEY, IDLER	7	NS	19-C--47--6131--	19EB5
14	ROLL PIN	1	AC	--AX--14CA-044--	19EB5
15	KEY	1	AC	19-D--21--1391--	19EB5
16	THRUST WASHER	1	AC	--AU--51YA-391--	19EB5
17	SHAFT, DRIVE PULLEY	1	AC	19EA--53--1052--	19EB5
18	RETAINER, SEAL	1	AC	19EA--42--1042--	19EB5
19	KEY, ACTUATOR	1	AC	17FA-502--1782--	19EB5
20	BUSHING	1	AC	--KT--53XL-093--	19EB5
21	PELLET	1	AC	19EA--41--1031--	19EB5
22	"V" RING ASSEMBLY	1	AC	--KK--71HT-014--	19EB5
23	"V" RING ASSEMBLY	1	AC	--KK--71HT-016--	19EB5

HERMETIC CENTRIFUGAL CHILLER

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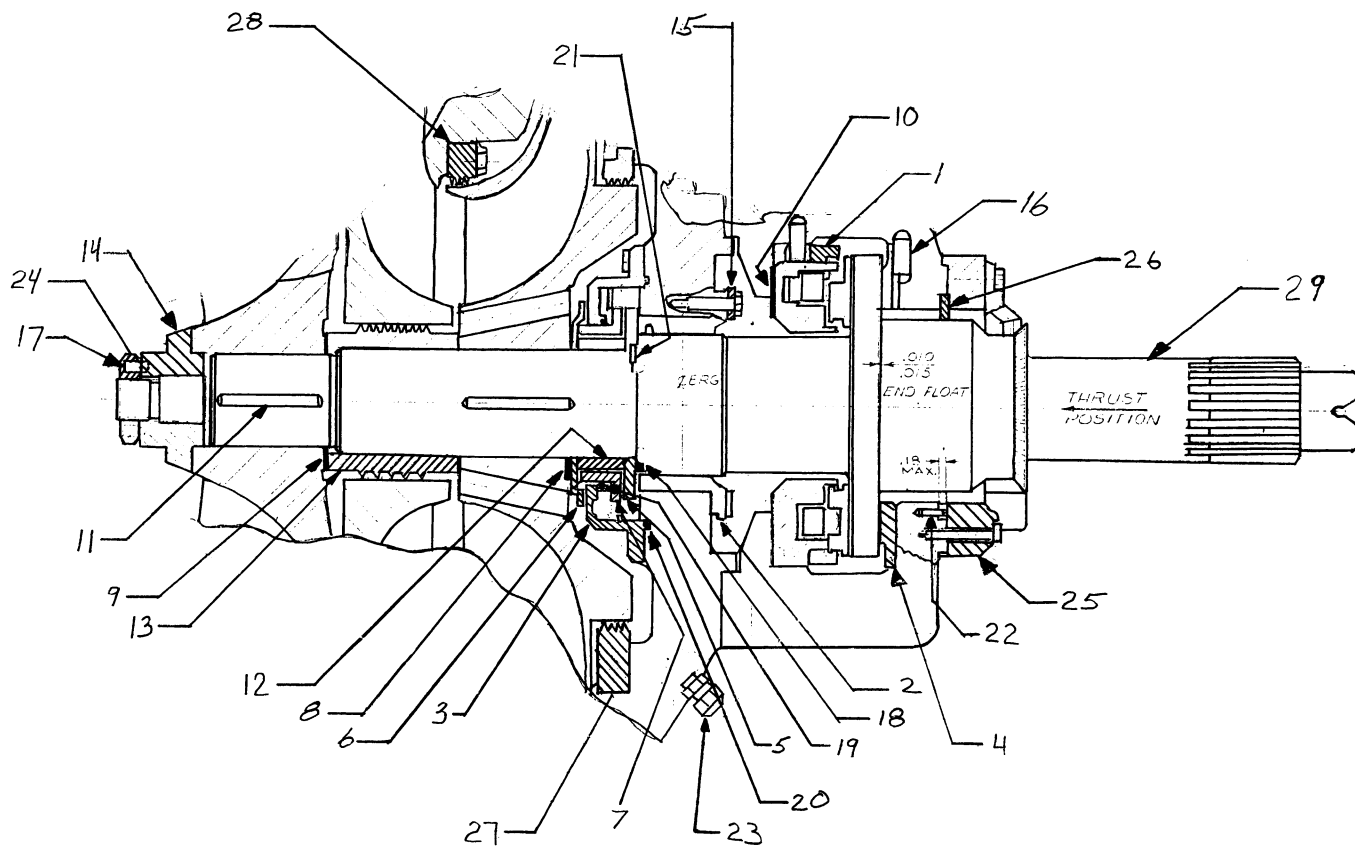
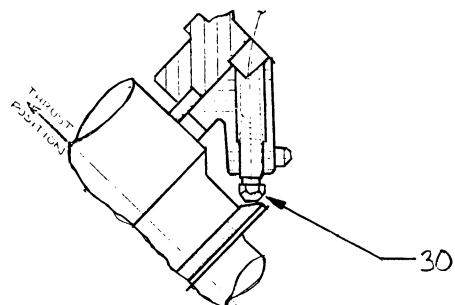
Compressor Drive Train



HERMETIC CENTRIFUGAL CHILLER

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ITEM NO.	PART DESCRIPTION	QTY	LDC	PART NUMBER	USED ON
COMPRESSOR DRIVE TRAIN					
1	COMPRESSOR HSG. MACHINING	NS	1	19EF-502--1024--	ALL COMP'R
2	"O" RING, 27 3/4 X 28 1/4 X 1/4	AC	1	--KK--71GX-257--	ALL COMP'R
3	"O" RING, 19 1/2 X 20 X 1/4	AC	1	--KK--71ER-201--	ALL COMP'R
4	GUAGE, TEMP	AC	1	--KM--14AC-253--	ALL COMP'R
5	"O" RING, 24 1/2 X 24 3/4 X 1/8	AC	1	--KK--71GX-245--	ALL COMP'R
6	GASKET, MOTOR FLANGE	AC	1	19EA--41--1303--	ALL COMP'R
7	COVER, INSP.	NS	1	17FA-502---293--	ALL COMP'R
8	TEMP. SWITCH	AC	1	--HH--16NA-100--	ALL COMP'R
9	"O" RING, 21 1/2 X 22 X 1/4	AC	1	--KK--71GW-223--	ALL COMP'R
10	GASKET, INSPECTION COVER	AC	1	17FA-502--1303--	ALL COMP'R
11	PILOT LIGHT ON OIL HEATER COVER	AC	1	--HY--19AD-026--	ALL COMP'R
12	TEMP SENSOR ASS'Y IN COMPRESSOR	NS	1	17FA-502---252--	ALL COMP'R
NI/13	FUSE 1/8 AMP	AC	1	19EA-411---142--	ALL COMP'R
14	FUSE 1/8 AMP IN CONDUIT BOX	AC	3	19EA-412---142--	ALL COMP'R
NI/15	TERMINAL	AC	4	--HY--85FP-041--	ALL COMP'R
17	WASHER, GASKET 1/2	MP	1	--AU--51YA-015--	ALL COMP'R
18	"O" RING 1 5/8 X 1 7/8 X 1/8	AC	1	--KK--71GZ-018--	ALL COMP'R
19	LABYRINTH 1ST STAGE EYE	AC	1	19EA--53--2034--	W/3 SHROUD
		AC	1	19EA--54--2034--	W/4 SHROUD
		AC	1	19EA--55--2034--	W/5 SHROUD
		AC	1	19EA--56--2034--	W/6 SHROUD



Rotor Bearing Assembly



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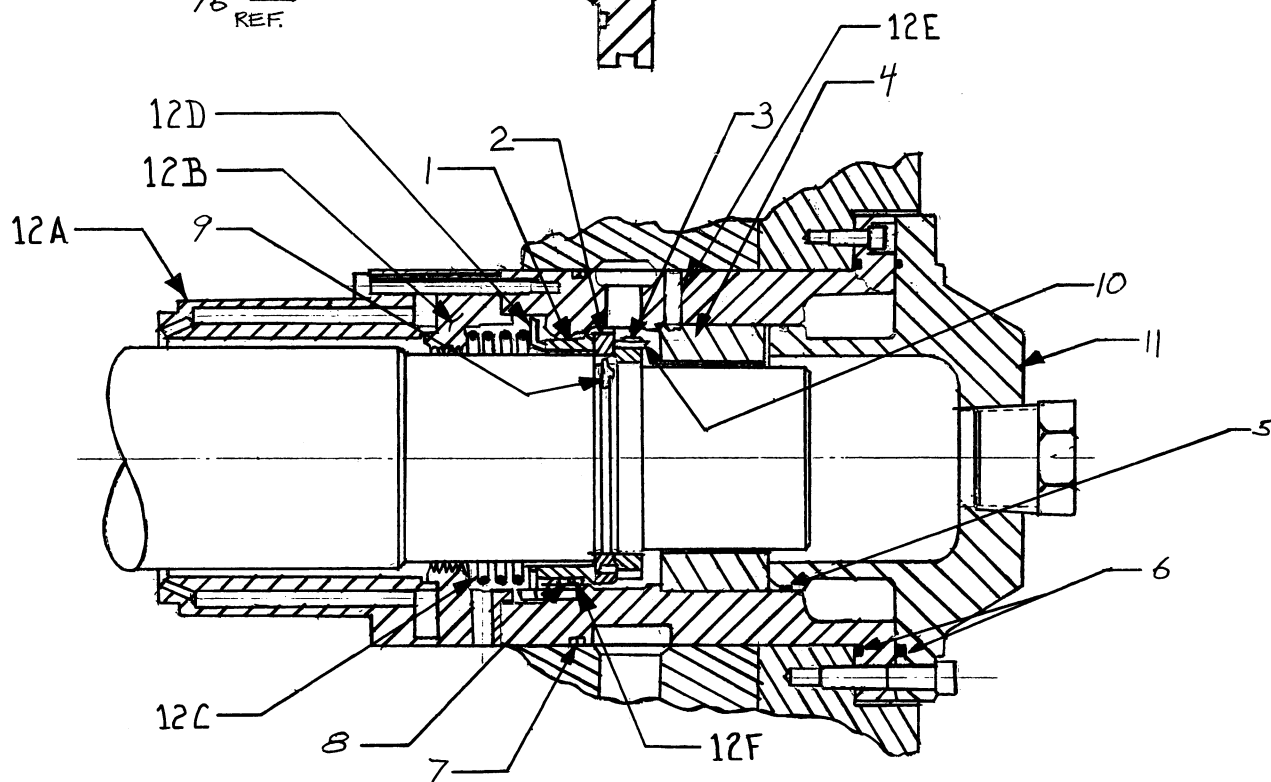
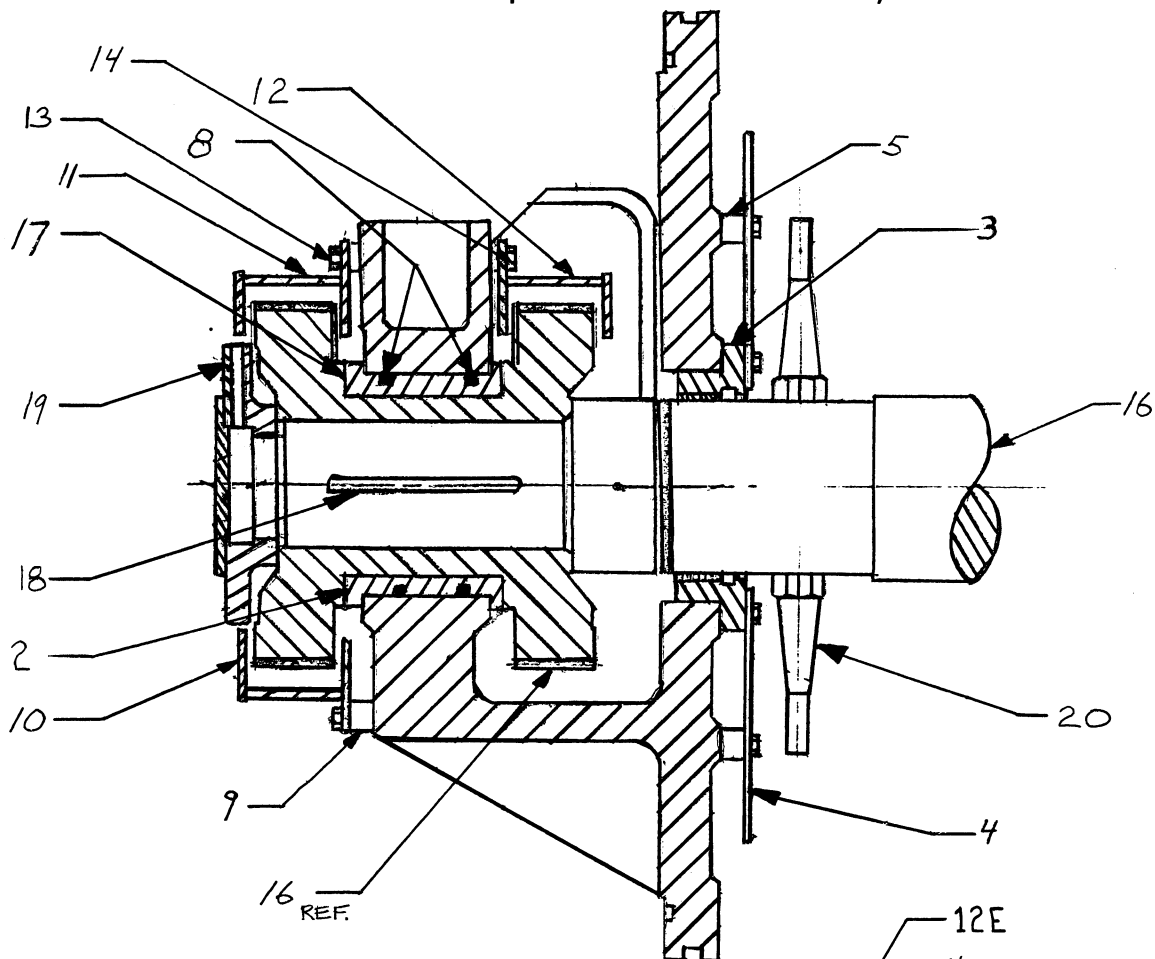
19EF

ITEM NO.	PART DESCRIPTION	LDC	QTY	PART NUMBER	USED ON
ROTOR BEARING ASSEMBLY					
1	THRUST BEARING	AC	1	17FA-502---354--	ALL COMP'R
2	BEARING ASSEMBLY	AC	1	17FA-502---123--	ALL COMP'R
3	SEAL HOUSING ASSEMBLY INCLUDES:	AC	1	19EB-512---102--	ALL COMP'R
3A	SPRING RETAINER	AC	1	19EA--51--1392--	ALL COMP'R
3B	SPRING	AC	12	19EA--41--1291--	ALL COMP'R
3C	RETAINING SPRING	AC	1	--AU--46AR-976--	ALL COMP'R
4	BRG. ASS'Y COUNTER THRUST	AC	1	17FA-502---113--	ALL COMP'R
5	RING, CONTACT	AC	1	19EA--51--1172--	ALL COMP'R
6	SLINGER	AC	1	19EA--51--1382--	ALL COMP'R
7	SEAL RING	AC	1	19EB-512--1012--	ALL COMP'R
8	SHIM, IMPELLER	AC	1	19EA--51--1882--	ALL COMP'R
9	SHIM	AC	1	19EA--53--1882--	ALL COMP'R
10	SHIM, THRUST BRG.	AC	1	17FA-502---213--	ALL COMP'R
11	KEY, IMPELLER	NS	6	17FA-502--1362--	ALL COMP'R
12	SHAFT SLEEVE	AC	1	19EA--51--1892--	ALL COMP'R
13	SPACER IMPELLER	AC	1	19EA--51--1372--	ALL COMP'R
14	LOCKNUT IMPELLER	AC	1	17FA-512--1602--	ALL COMP'R
15	RETAINER BRG.	AC	1	17FA-502--1052--	ALL COMP'R
16	KEY	AC	2	17FA-402--1372--	ALL COMP'R
17	SET SCR. 1/4-20 X 1/2 LG.	AC	2	--AE--17AR-166--	ALL COMP'R
18	"O" RING 2 5/8 X 2 3/4 X 1/16	AC	1	--KK--71GX-024--	ALL COMP'R
19	"O" RING 3 1/4 X 3 1/2 X 1/8	AC	1	--KK--71GX-031--	ALL COMP'R
20	"O" RING 4 7/8 X 5 1/8 X 1/8	AC	1	--KK--71GZ-051--	ALL COMP'R
21	PIN, DOWEL 3/32 DIA X 3/8 LG.	AC	1	--AX--11AR-037--	ALL COMP'R
22	PIN, DRIVE, TYPE D, 3/16 DIA X 1/2 LG.	AC	1	--AX--27AB-122--	ALL COMP'R
23	CHECK VALVE 1/16 ORIFICE	AC	1	19EA--41---262--	ALL COMP'R
24	LOCKNUT, IMPELLER	AC	1	17FA-502--1602--	ALL COMP'R
25	MTG. RING ASS'Y DISPL. TRIP	AC	1	17FA-502---143--	ALL COMP'R
26	SEAL RING	AC	1	19EA--51--1862--	ALL COMP'R
27	LABYRINTH BALANCING PISTON	AC	1	17FA-502--1333--	ALL COMP'R
28	LABYRINTH 2ND STAGE IMP. EYE	NS	1	19EA--53--2044--	A3 SHROUD
		AC	1	19EA--54--2044--	A4 SHROUD
		AC	1	19EA--55--2044--	A5 SHROUD
		AC	1	19EA--56--2044--	A6 SHROUD
29	IMPELLER SHAFT	NPS	1	19EF-502--1004--	ALL COMP'R
30	DETECTOR ASS'Y	AC	1	17FA-502---382--	ALL COMP'R
31	TEMP SENSOR ASS'Y (LOCATED IN THRUST BRG. HOUSING)	AC	1	17FA-502---402--	ALL COMP'R

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Compressor Transmission Assembly



Compressor Rear Bearing Assembly



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ITEM NO.	PART DESCRIPTION	LDC	QTY	PART NUMBER	USED ON
COMPRESSOR REAR BEARING ASSEMBLY					
	REAR BEARING HOUSING ASSEMBLY CONSISTING OF:				
1	SEAL RING	AC	1	19EA--51--1312--	ALL COMP'R
2	CONTACT RING	AC	1	19EA--51--1962--	ALL COMP'R
3	LOCKNUT	AC	1	19EA--51--1362--	ALL COMP'R
4	BEARING, BELL END	AC	1	19EA--51--1972--	ALL COMP'R
5	"O" RING, 3 7/8 X 4 1/8 X 1/8	AC	3	--KK--71GZ-041--	ALL COMP'R
6	"O" RING, 6 X 6 1/4 X 1/8	AC	2	--KK--71GX-060--	ALL COMP'R
7	"O" RING, 5 5/8 X 5 7/8 X 1/8	AC	1	--KK--71GX-052--	ALL COMP'R
8	"O" RING, 3 3/4 X 4 X 1/8	AC	1	--KK--71GX-037--	ALL COMP'R
9	DOWELL PIN, 3/32 DIA. X 3/8 LG.	AC	1	--AX--11AR-037--	ALL COMP'R
10	SCREW, SET	NS	2	--AE--19AR-100--	ALL COMP'R
11	COVER BRG. HSG.	NS	1	19EA-412--1714--	ALL COMP'R
12	BRG. HSG. ASSY. INCLUDES:	NS	1	19EA--52---173--	ALL COMP'R
12A	SPRAY RING	AC	1	19EA--51--1194--	ALL COMP'R
12B	LABYRINTH	AC	1	19EA--52--1023--	ALL COMP'R
12C	SPRING	AC	1	19EA--51--1952--	ALL COMP'R
12D	PRESSURE PLATE	AC	1	19EA-512--1013--	ALL COMP'R
12E	DOWEL PIN	AC	1	19EA--51--2062--	ALL COMP'R
12F	DOWEL PIN 3/16 DIA. X 1" LG.	AC	3	--AX--11AR-130--	ALL COMP'R



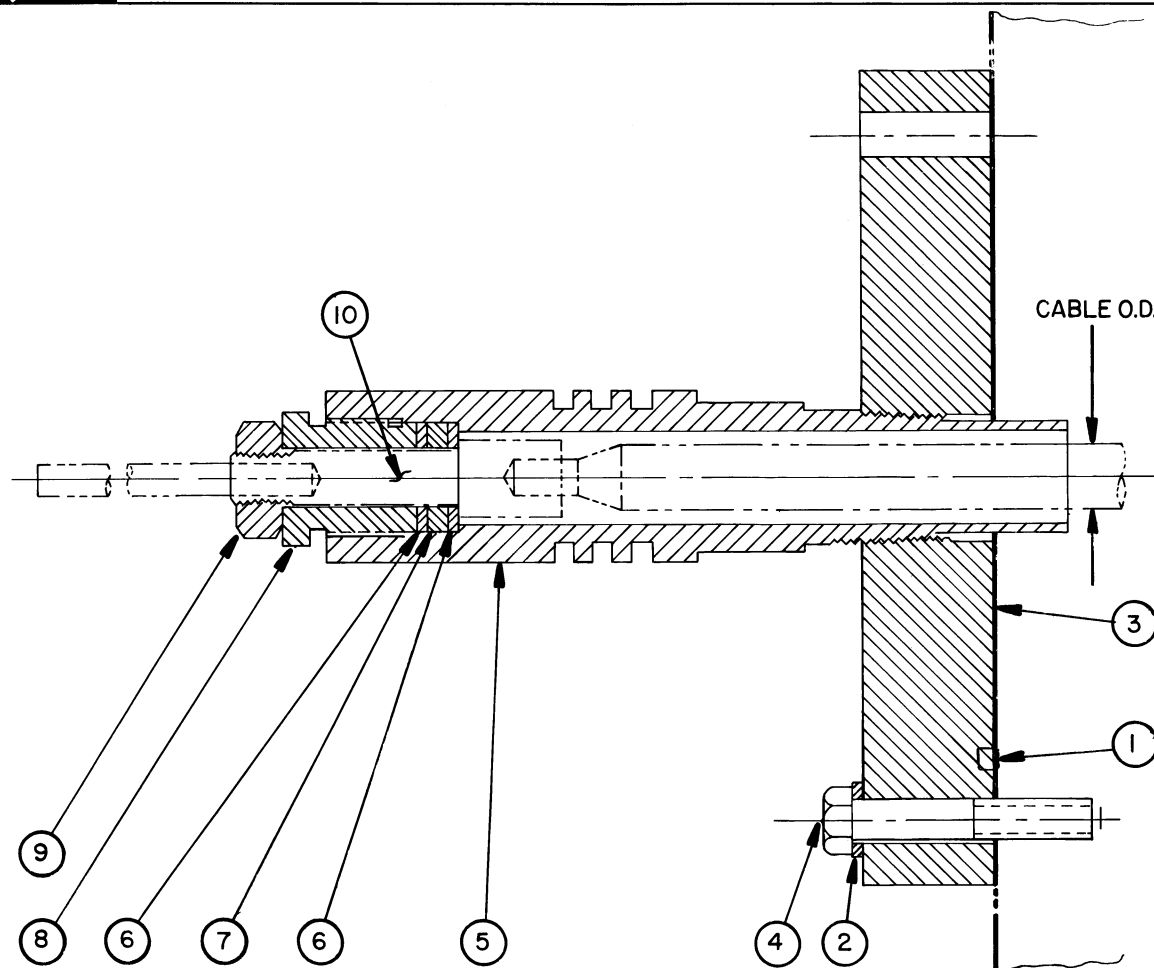
HERMETIC CENTRIFUGAL CHILLER

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ITEM NO.	PART DESCRIPTION	LDC	QTY	PART NUMBER	USED ON
COMPRESSOR TRANSMISSION ASSEMBLY					
NI/1	TRANS & BEARING CAP ASSY.	NS	1	19EF-502---274--	ALL COMP'R
2	GEAR BRG. ASSY.	NS	1	19EF-512---204--	ALL COMP'R
3	LABYRINTH	AC	1	17FA-502--2094--	ALL COMP'R
4	WINDAGE BAFFLE	NS	1	17FA-502--1243--	ALL COMP'R
5	SPACER	NS	6	17FA-402--1072--	ALL COMP'R
NI/6	BEARING KEY	NPS	1	19EF-512--1142--	ALL COMP'R
7	TUBING ASSY, GEAR SPRAY	NS	1	19EF-502---113--	ALL COMP'R
8	"O" RING, 5 5/8 X 5 7/8 X 1/8	AC	2	--KK--71GX-052--	ALL COMP'R
9	SPACER	NS	4	19EF-502--1092--	ALL COMP'R
10	GEAR SHROUD ASSY (BOT)	NS	1	19EF-502---313--	ALL COMP'R
11	GEAR SHROUD ASSY (TOP)	NS	1	19EF-512---313--	ALL COMP'R
12	GEAR SHROUD	NS	1	19EF-522---313--	ALL COMP'R
13	SPACER	NS	3	19EF-512--1092--	ALL COMP'R
14	SPACER	NS	3	19EF-522--1092--	ALL COMP'R
NI/15	"O" RING, 1 X 3/4 X 1/8	NPS	1	--KK--71GX-011--	ALL COMP'R
17	PINION PACKAGE (60 HZ)	AC	1	19EA--51---831--	ALL COMP'R
	(50 HZ)	NS	1	19EA--55---831--	ALL COMP'R
18	PINION KEY	AC	1	19EA--51--1922--	ALL COMP'R
19	DEMISTER	AC	1	19EA--41--1063--	ALL COMP'R
20	NOZZLE	AC	4	19EA--41--1792--	ALL COMP'R

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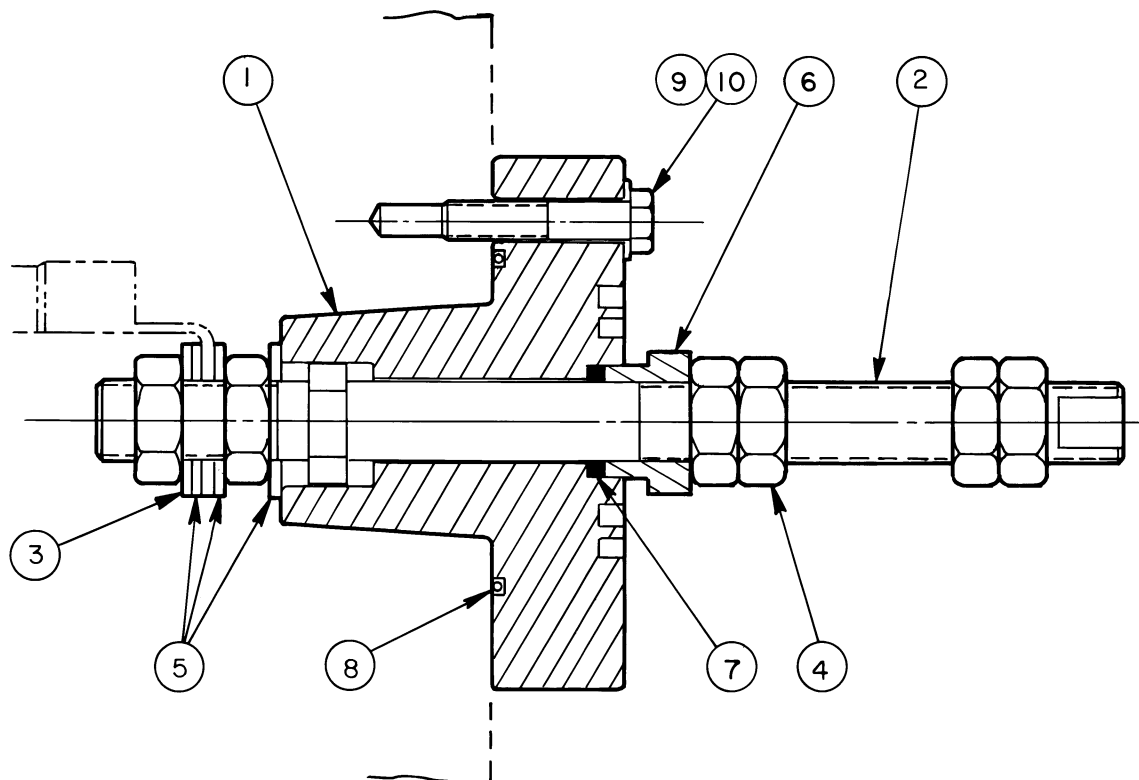


**Terminal Arrangement
(Hi-Voltage, 2300-4160)**

ITEM NO.	PART DESCRIPTION	PART NUMBER	LDC	QUANTITIES REQUIRED	
				PER ASSEMBLY	PER MOTOR
1	"O" RING	--KK--71GZ-051--	AC	1	3
2	WASHER, PLAIN	--AU--02AB-242--	NS	10	30
3	TERMINAL BOARD	19EA--53--1183--	AC	1	3
4	HEX. HEAD CAP SCREW	--AA--06BS-235--	AC	10	30
5	TERMINAL INSULATOR	19FA-502--1504--	AC	1	3
6	TERMINAL RETAINER	19FA-502--1242--	AC	2	6
7	PACKING RING	19FA-502--1232--	AC	1	3
8	PACKING NUT	19FA-502--1222--	AC	1	3
9	JAM NUT	--AT--14QA-311--	AC	1	3
10	TERMINAL ADAPTER (.611 O.D. CABLE)	19EA--41---004--	AC	1	3
	(.789 O.D. CABLE)	19EA--41---005--	AC	1	3

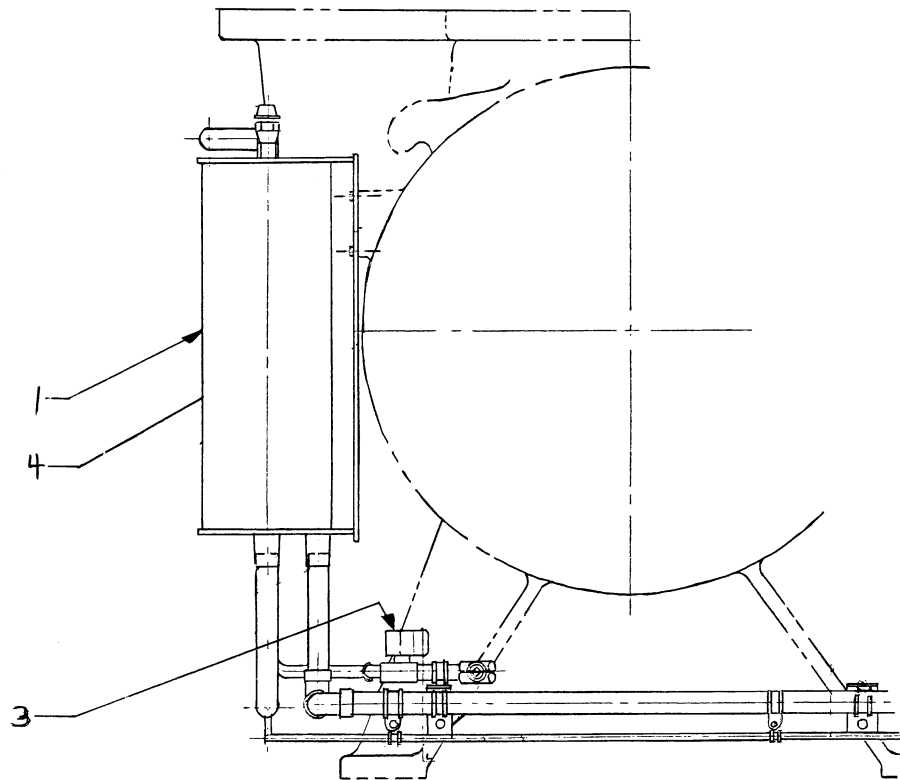
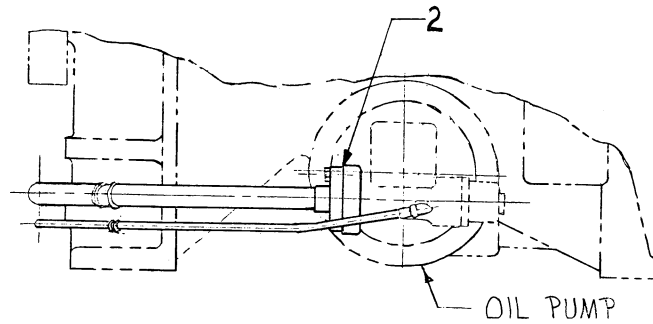
HERMETIC CENTRIFUGAL CHILLER

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**Terminal Arrangement
(Lo-Voltage, 208-575)**

ITEM NO.	PART DESCRIPTION	PART NUMBER	LDC	QUANTITIES REQUIRED	
				PER ASSEMBLY	PER MOTOR
1	TERMINAL BOARD	19EA--42--1183--	AC	1	3
2	STUD, TERMINAL ASSEMBLY	19EA--42---353--	AC	2	6
3	WASHER	--AU--51AS-541--	AC	2	6
4	3/4 - 10 JAM NUT	--AT--14QA-361--	AC	12	36
5	3/4 BRASS WASHER	--AU--02QA-361--	AC	6	18
6	PACKING GLAND	19EA--41--1142--	AC	2	6
7	PACKING RING	19EA--41--2432	AC	2	6
8	"O" RING	--KK--71GZ-051--	AC	1	3
9	3/8 HEX HEAD CAP SCREW	--AA--06BR-235--	AC	10	30
10	3/8 WASHER	--AU--02AB-242--	AC	10	30



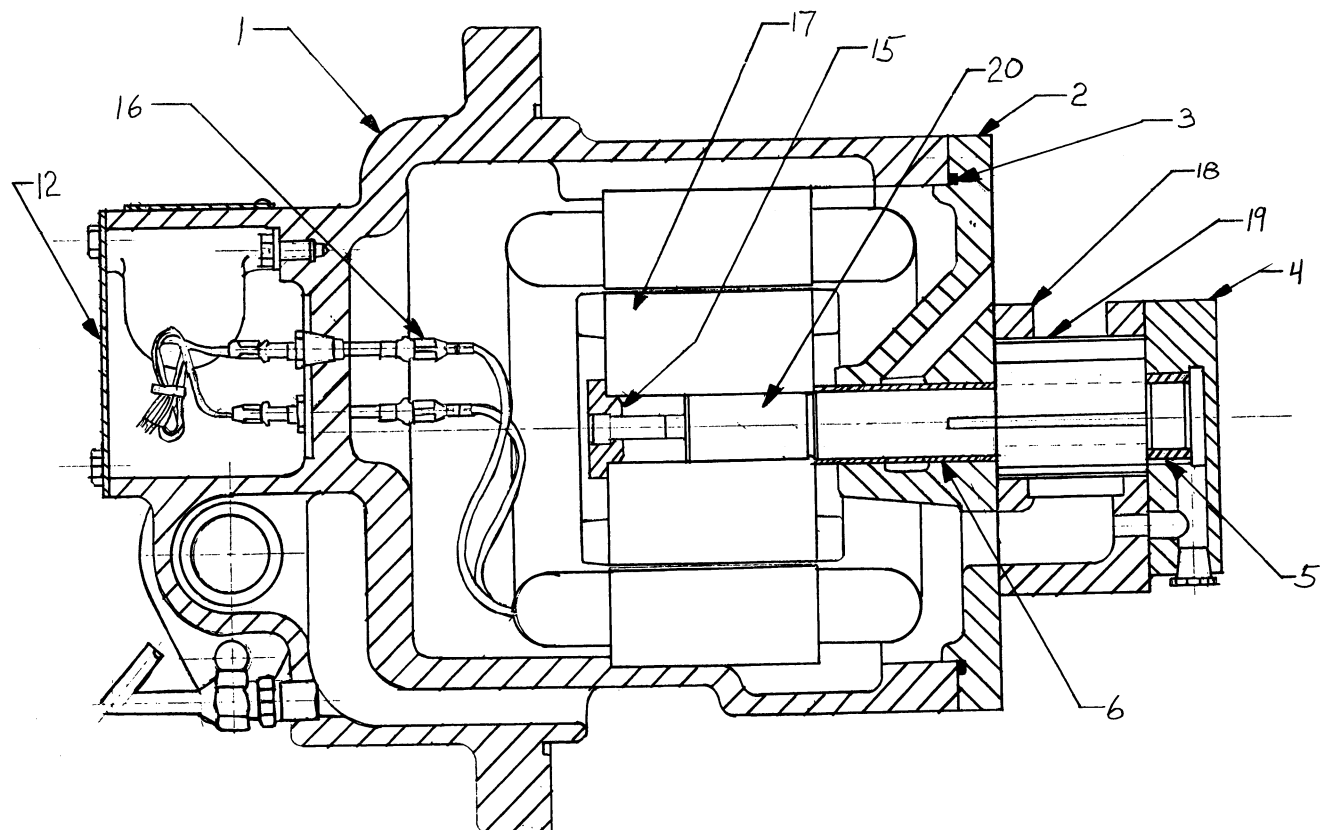
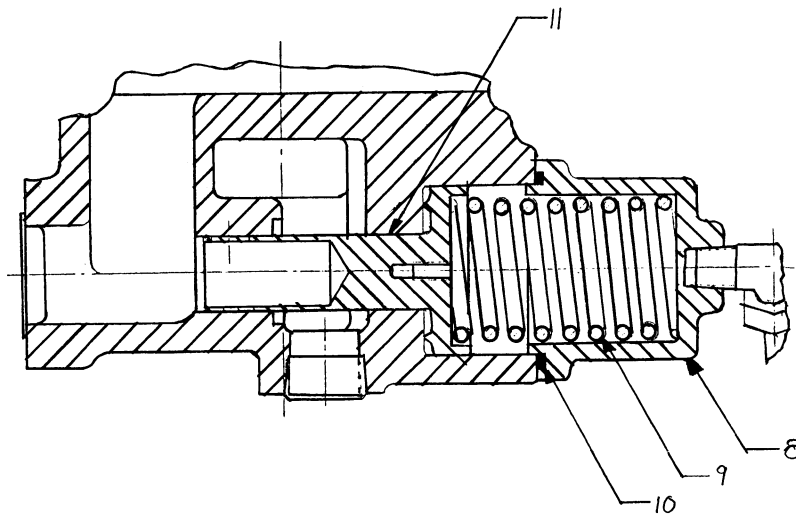
Oil Lube System



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ITEM NO.	PART DESCRIPTION	LDC	QTY	PART NUMBER	USED ON
OIL LUBE SYSTEM					
1	OIL FILTER - COOLER ASSY.	NS	1	19EF-412---103--	ALL COMP'R
2	GASKET	MP	4	--DK--29GA-005010-	ALL COMP'R
3	SOLENOID VALVE	AC	1	--EF--11CM-182--	ALL COMP'R
4	CARTRIDGE, FILTER	AC	2	17-S--40---001--	ALL COMP'R



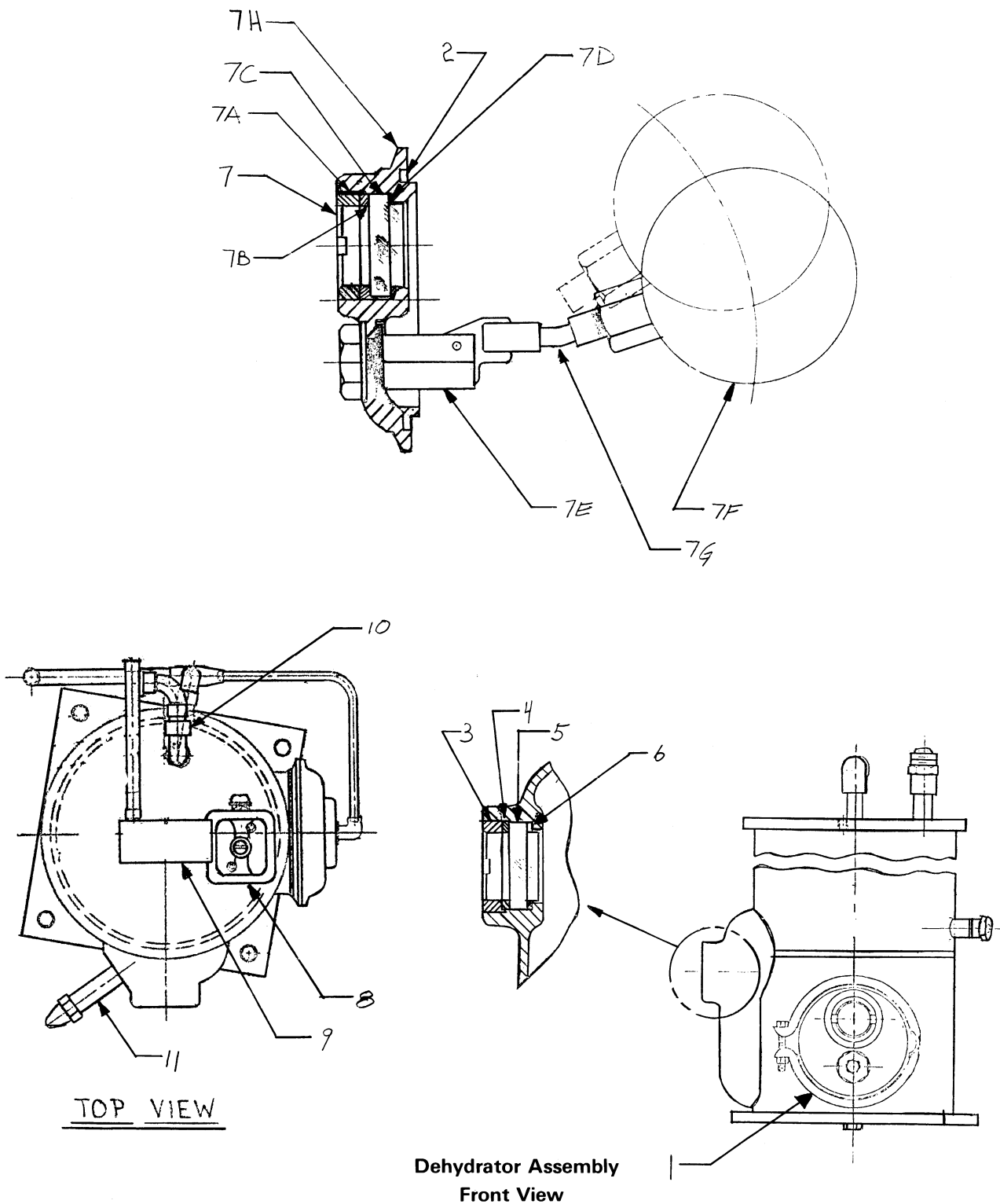
Oil Pump and Motor Assembly



HERMETIC CENTRIFUGAL CHILLER

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ITEM NO.	PART DESCRIPTION	LDC	QTY	PART NUMBER	USED ON
OIL PUMP & MOTOR ASSEMBLY					
1	HOUSING, MOTOR	NS	1	17FA-402--1174--	ALL COMP'R
2	COVER, MOTOR HOUSING	NS	1	19EF-402--1014--	ALL COMP'R
3	"O" RING, 6 1/4 X 6 1/2 X 1/8	AC	1	--KK--71GZ-065--	ALL COMP'R
4	COVER, OIL PUMP	AC	1	19EA-511--1143--	ALL COMP'R
5	SLEEVE	NS	1	17CA--61--1191--	ALL COMP'R
6	SLEEVE	NS	1	19EA-411--2052--	ALL COMP'R
NI/7	TERMINAL PKG. MOTOR INCLUDES: TERMINAL	AC	1	--HY--85FP-060--	ALL COMP'R
8	CAP, VALVE	NS	1	17FA-402--1003--	ALL COMP'R
9	SPRING, COMPRESSION	NS	1	17FA-412--1002--	ALL COMP'R
10	"O" RING, 2 1/4 X 2 1/2 X 1/8	AC	1	--KK--71GZ-025--	ALL COMP'R
11	PISTON	AC	1	17FA-402--1013--	ALL COMP'R
12	COVER, TERMINAL BOX	NS	1	17FA-402--1012--	ALL COMP'R
13	DOWEL PIN, 1/4 DIA. X 1 1/4 LG. (N.I.)	AC	2	--AX--11AR-172--	ALL COMP'R
14	DOWEL PIN, 1/4 DIA. X 3/4 LG. (N.I.)	NS	2	--AX--11AR-168--	ALL COMP'R
15	RING, CLAMPING (ROTOR)	NS	1	19-D--21--1011--	ALL COMP'R
16	QUICK CONNECT, 1/4 FEMALE	AC	3	--HY--60AM-051--	ALL COMP'R
17	ROTOR, 1 1/2 HP.	NS	1	--HD--53JK-322--	ALL COMP'R
18	HOUSING, OIL PUMP	NS	1	19EA--41--5394--	ALL COMP'R
19	VANE, PUMP	NS	4	19EA--51--7012--	ALL COMP'R
20	SHAFT, OIL PUMP MOTOR	NS	1	19EA-511--1133--	ALL COMP'R





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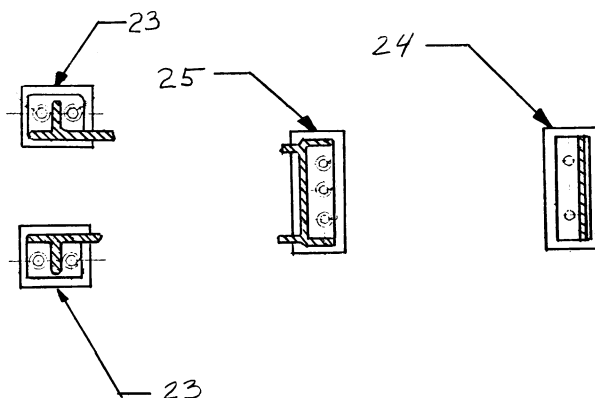
19EF

ITEM NO.	PART DESCRIPTION	LDC	QTY	PART NUMBER
DEHYDRATOR FINAL ASS'Y				
1	COUPLING, V-BAND	AC	1	--CT--28MP-035--
2	"O" RING, 3 3/8 X 3 5/8 X 1/8	AC	1	--KK--71GX-031--
3	GLAND, SIGHT GLASS	AC	1	--TS-380-----
4	GASKET, OUTER	AC	1	-5-F--20--1631012-
5	SIGHT GLASS	AC	1	19-C--35--6151--
6	GASKET, INNER	MP	1	19-C--35--6161--
7	FLOAT VALVE & COVER ASSY. INCLUDES:	AC	1	19EA--41---757--
7A	GLAND	NS	1	19-C--35--6171--
7B	GASKET (OUTER)	AC	1	-5-F--20--1631--
7C	SIGHT GLASS	AC	1	19-C--35--6151--
7D	GASKET (INNER)	AC	1	-5-F--20--1011--
7E	VALVE	AC	1	19DA--11---551--
7F	FLOAT BALL	AC	1	--EC--28HZ-023--
7G	FLOAT ARM ASSY.	AC	1	19DA--11---501--
7H	FLOAT COVER	AC	1	19DA--11--5043--
8	VALVE, ANGLE (1/4" MPT X 1/4" FL)	NS	1	--EP--20LA-093--
9	GAGE, PRESSURE (1/4" MPT)	AC	1	--KM--03AF-280--
10	ORIFICE (.062 DIA.)	AC	1	19CB-721--1012--
11	VALVE, ANGLE (1/4" MPT X 1/4" FL)	NS	1	--EP--23LC-090--
NI/12	STRAINER 1/2 FL	AC	1	--KH--11NX-100--

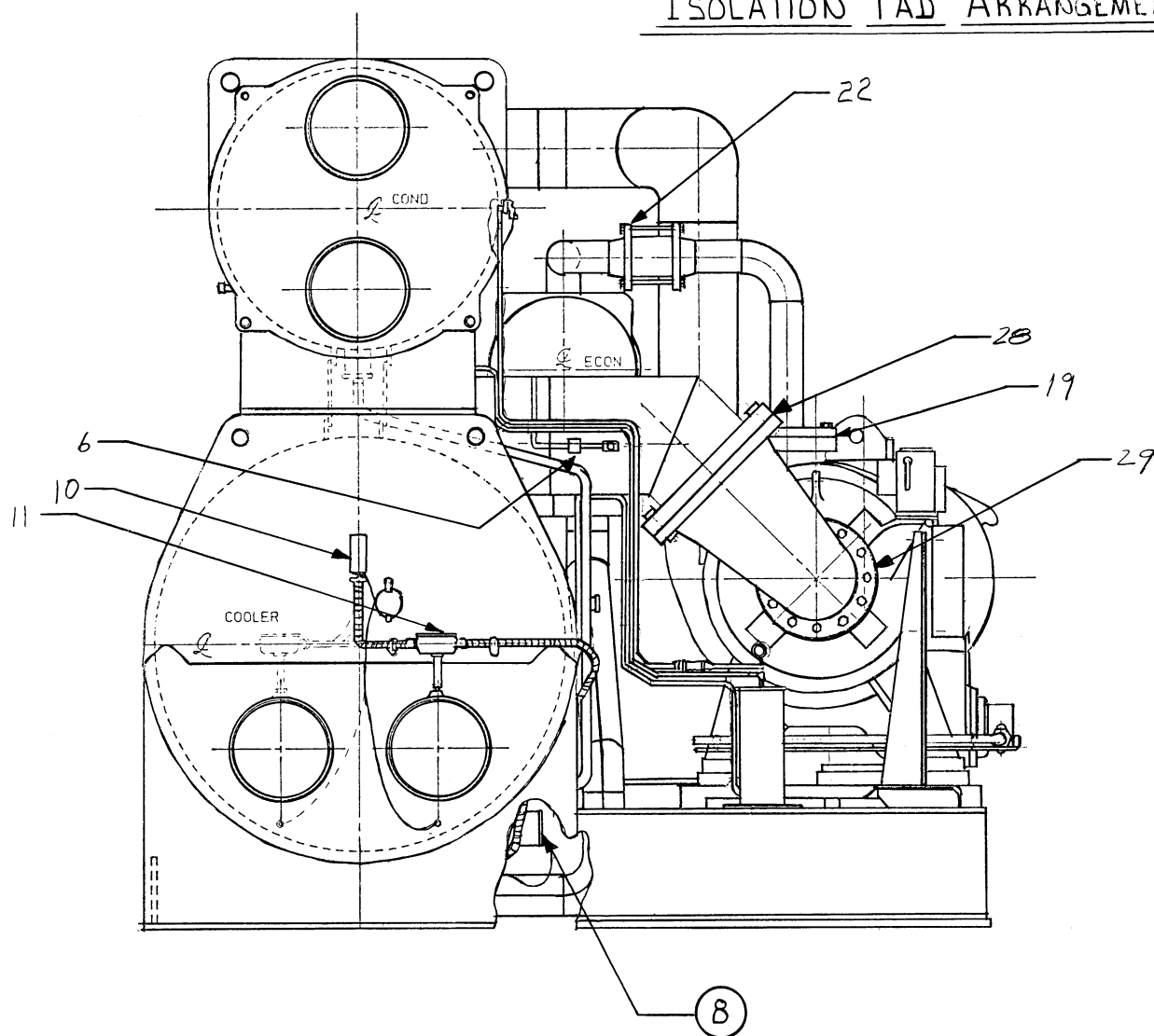
HERMETIC CENTRIFUGAL CHILLER

19EF

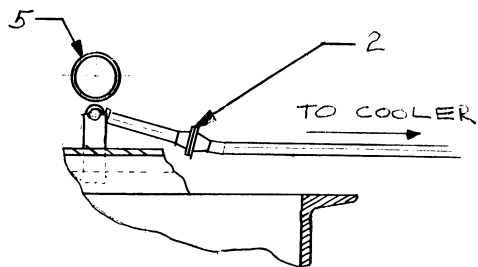
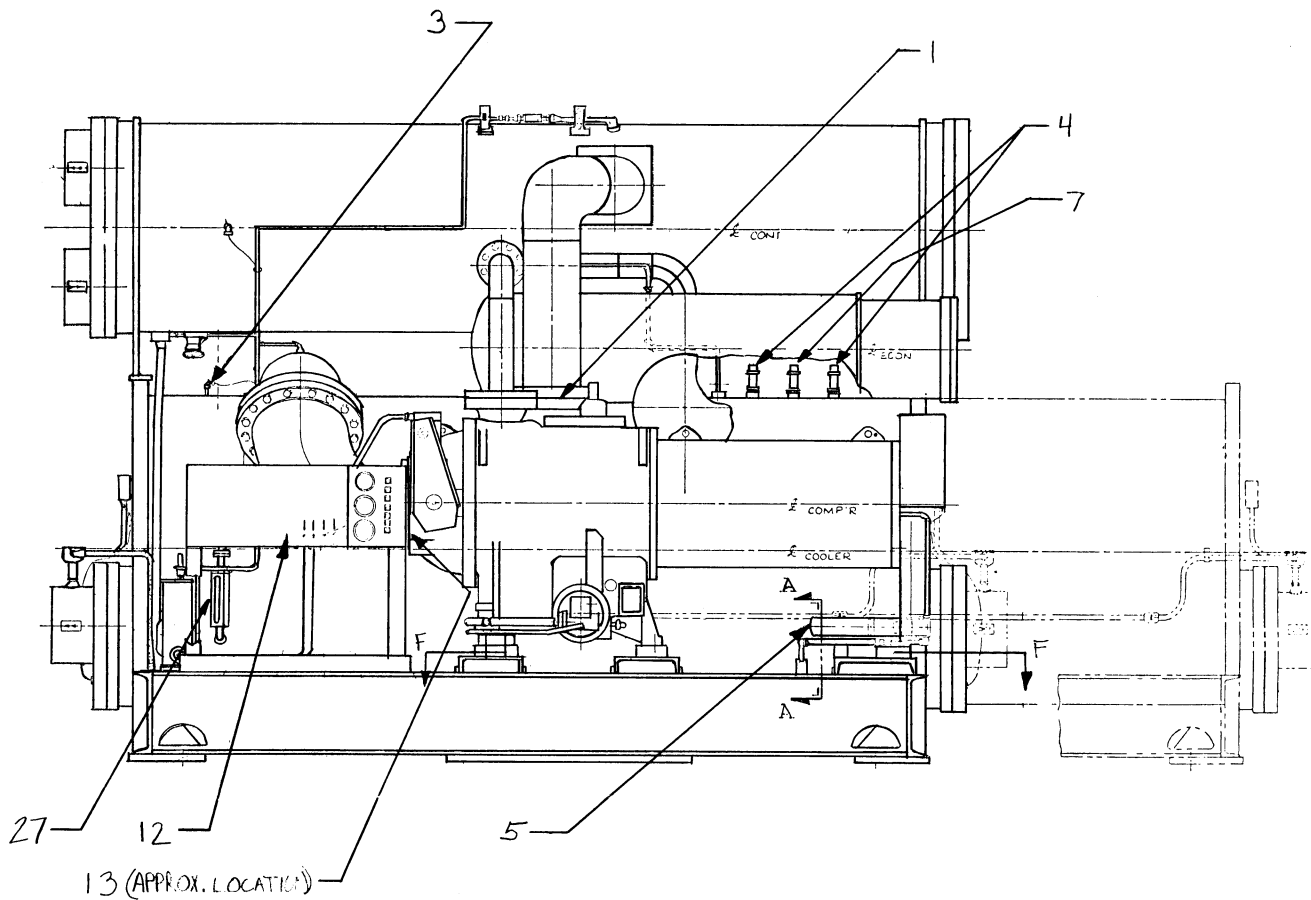
Refrigeration Machine Assembly



ISOLATION PAD ARRANGEMENT



Refrigeration Machine Assembly



SECTION A-A



HERMETIC CENTRIFUGAL CHILLER

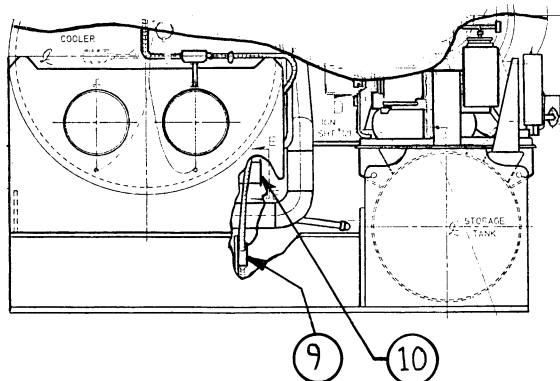
19EF

ITEM NO.	PART DESCRIPTION	LDC	QTY	PART NUMBER	USED ON
REFRIGERATION MACHINE INTERCONNECTING PIPING					
1	GASKET	AC	2	19EA--41--1432--	ALL UNISHELLS
2	GASKET, RING 3/4"	NS	2	--CT--99GX-201--	ALL UNISHELLS
3	GASKET, FLARE 1/4"	AC	2	--DD--24FA-051--	ALL UNISHELLS
4	RELIEF VALVE, 1" MPT X 1/4" MPT	AC	2	--EB--51FZ-301--	ALL UNISHELLS
5	FILTER ASSY INCLUDES:	AC	1	17FA-402---343--	ALL UNISHELLS
5A	FILTER HOUSING	AC	1	--KH--33QA-180--	ALL UNISHELLS
5B	FILTER CARTRIDGE	AC	2	--KH--09AZ-001--	ALL UNISHELLS
5C	COMPRESSION SPRING	NS	1	17FA-402--1992--	ALL UNISHELLS
6	VALVE, 1/2 O.D.F. X 1/2 O.D.F.	AC	1	--EP--10BA-181--	ALL UNISHELLS
7	RELIEF VALVE 1/2" 1"	AC	1	--EB--51FZ-181--	19 THRU 26 COOLER CODE
		AC	1	--EB--51FZ-301--	27 THRU 59 COOLER CODE
8	WELL, THERMOMETER BULB	AC	1	--HL--79ZZ-002--	ALL UNISHELLS
9	SWITCH, LOW REFRIG. TEMP	AC	1	--HH--24ZB-033--	ALL UNISHELLS
10	SWITCH, CHILLED WATER TEMP	AC	1	--HH--24ZC-037--	ALL UNISHELLS
11	CONTROLLER, ATTACHED PROBE	AC	1	32SM-500---234--	ALL UNISHELLS
12	CONTROL PANEL ASSY.	NS	1	19FA-506---114--	(SEE PAGE 32)
13	ELAPSED TIME INDICATOR	AC	1	--HK--28DG-116--	ALL UNISHELLS
19	GASKET	AC	2	19EA--41--1432--	27 THRU 59 COOLER CODE
		AC	4	19EA--41--1432--	19 THRU 26 COOLER CODE
NI/20	GASKET, ECONO. SUCTION	AC	1	17FA-101--1052--	ALL UNISHELLS
NI/21	1" BALL VALVE	NPS	1	--EF--71CQ-310--	W/COMP'R BASE
		NPS	2	--EF--71CQ-310--	W/STORAGE TANK
22	4" RING GASKET	AC	2	--CT--99GX-601--	ALL UNISHELLS
23	COMPRESSOR LEVELING PAD	NS	2	17FA-502--1472--	W/COMP'R BASE
		NS	2	19EF-502--1122--	W/STORAGE TANK
24	COMPRESSOR LEVELING PAD	NS	1	17FA-512--1482--	W/COMP'R BASE
		NS	1	19EF-502--1132--	W/STORAGE TANK
25	COMPRESSOR LEVELING PAD	NS	1	17FA-502--1482--	W/COMPRESSOR
		NS	1	19EF-512--1132--	W/STORAGE TANK
NI/26	2" RING GASKET	AC	1	--CT--99GX-401--	ALL UNISHELLS
27	LIQUID LEVEL ASSY.	AC	1	17FA-101---173--	ALL UNISHELLS
28	SUCTION FLANGE GASKET	AC	1	19EA--51--1432--	19, 20, 21, 49, 50, 51
		NS	1	17FA-241--1052--	22-29, 52-59
29	5" RING GASKET	NPS	3	--CT--99GX-651--	27, 28, 29, 57, 58, 59
NI/30	1" RING GASKET	AC	3	--CT--99GX-251--	27, 28, 29, 57, 58, 59
NI/31	1/2" RING GASKET	NPS	1	--CT--99GX-151--	19, 20, 21, 49, 50, 51

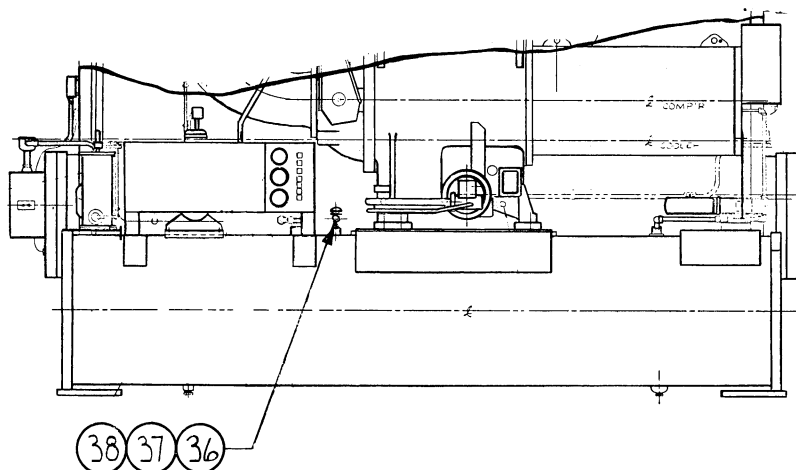
HERMETIC CENTRIFUGAL CHILLER

19EF

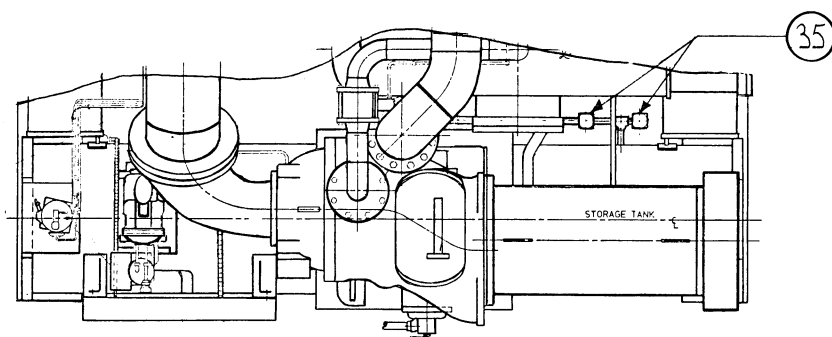
COMPRESSOR END VIEW / w STORAGE TANK



FRONT VIEW / w STORAGE TANK



PLAN VIEW / w STORAGE TANK





HERMETIC CENTRIFUGAL CHILLER

19EF

ITEM NO.	PART DESCRIPTION	LDC	QTY	PART NUMBER	USED ON
REFRIGERATION MACHINE INTERCONNECTING PIPING					
NI/32	COOLER W/B GASKET	AC	2	17FA-523--1263--	COOLER CODE 19, 20, 21, 49, 50, 51 22, 24, 25, 26, 52, 54, 55, 56 27, 28, 29, 57, 58, 59
		AC	2	17FA-563--1263--	
		AC	2	17FA-593--1263--	
NI/33	CONDENSER W/B GASKET	AC	2	17FA-424--1133--	COND'R CODE 10, 11, 12 14, 15, 16 18, 19 20, 21, 22 24, 25, 26 27, 28, 29 30, 31, 32
		AC	2	17FA-464--1133--	
		AC	2	17FA-494--1133--	
		AC	2	17FA-524--1133--	
		AC	2	17FA-564--1133--	
		AC	2	17FA-594--1133--	
		AC	2	17FA-624--1133--	
NI/34	DIVISION PLATE SEALING STRIP	AC	*	16JB-680---043--	BOTH COOLER & COND'R
STORAGE TANK					
35	RELIEF VALVE 1" MPT 1 1/4 FPT	AC	2	--EB--51FZ-304--	
36	VALVE 1/2 O.D.S. X 1/2 O.D.S.	AC	1	--EP--10BA-181--	
37	ANGLE VALVE 1/2" MPT X 1/2 FLARE	AC	1	--EP--22LA-210--	
38	1/2" FLARE GASKET	AC	1	--DD--24FA-151--	

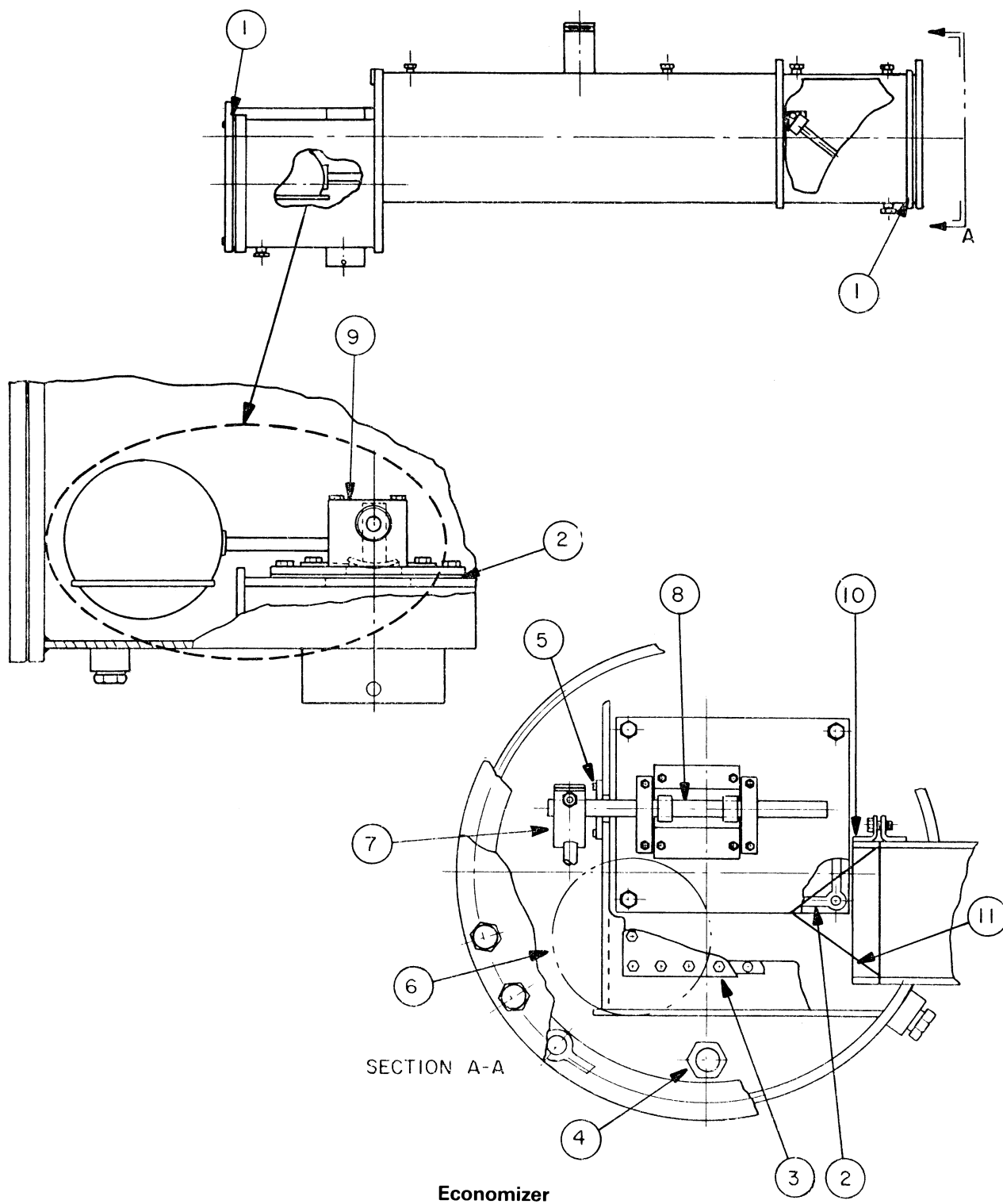
* 16JB-680---043-- SEALING STRIP COMES IN 20 FT. ROLLS

LDC	DESCRIPTION																				
	COOLER CODE NO.	19	20	21	22	24	25	26	27	28	29	49	50	51	52	54	55	56	57	58	59
NS	COOLER TUBES	448	512	576	640	704	768	832	896	960	1024	448	512	576	640	704	768	832	896	960	1024
NS	CONDENSER TUBES	172	206	240	274	308	344	412	480	550	618	686	754	824	892	960	1030	1098	1252	1406	1560
	CONDENSER CODE NO.	10	11	12	14	15	16	18	19	20	21	22	24	25	26	27	28	29	30	31	32

NOTES: 1 - TO DETERMINE THE UNISHELL SIZE, REFER TO PAGE #4

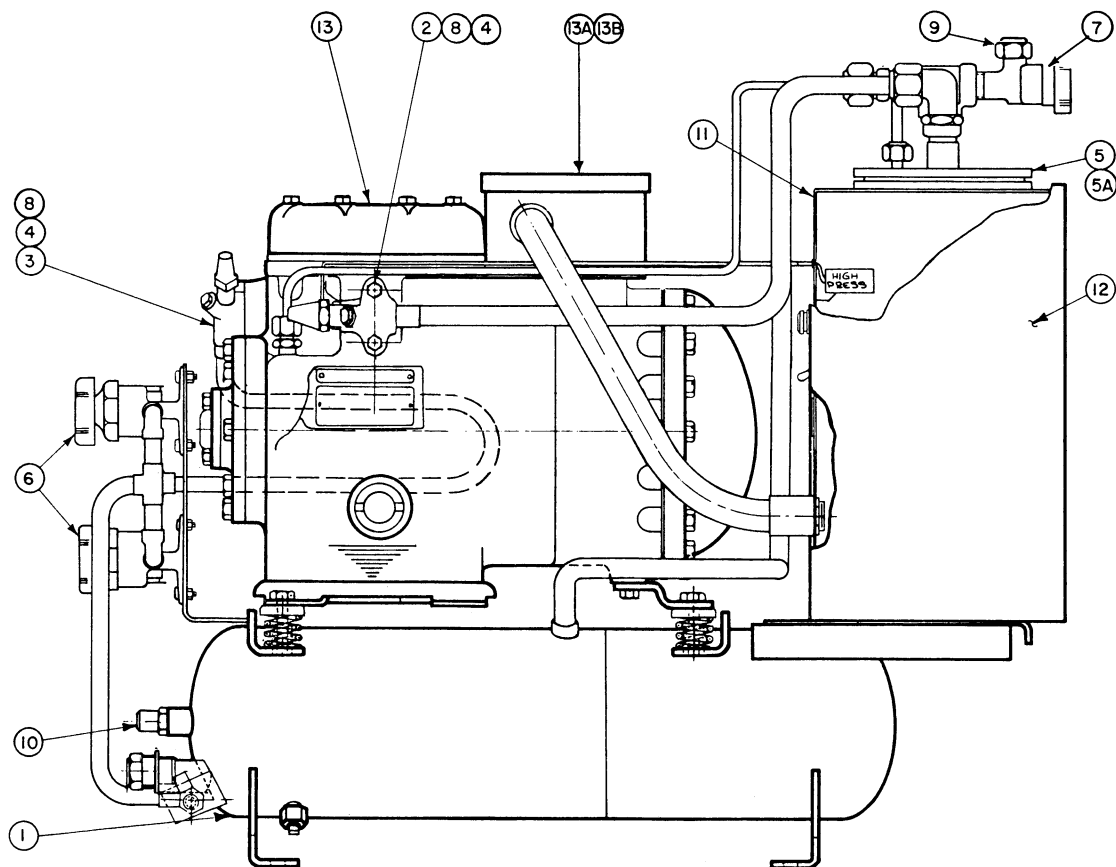
HERMETIC CENTRIFUGAL CHILLER

19EF



HERMETIC CENTRIFUGAL CHILLER

19EF



Pumpdown Assembly



HERMETIC CENTRIFUGAL CHILLER

19EF

ITEM NO.	PART DESCRIPTION	LDC	QTY	PART NUMBER	CONDENSER SIZE
ECONOMIZER					
1	GASKET, FLOAT CHAMBER	AC	2	17FA-105--1023--	ALL SIZES
2	GASKET, VALVE PLATE	AC	2	17FA-105--1112--	ALL SIZES
3	GASKET, (HI-SIDE) VALVE CHAMBER	AC	1	17FA-105--1073--	ALL SIZES
4	ORIFICE, STRAINER ASSY. 1/8"	AC	1	19EA--41---852--	ALL SIZES
5	SHAFT SEAL	AC	1	17FA-105--1132--	ALL SIZES
6	BALL, FLOAT 8" (HI-SIDE)	AC	1	--EC--28HZ-243--	ALL SIZES
7	FLOAT ARM & BRACKET (HI-SIDE)	NS	1	17FA-115---122--	ALL SIZES
8	VALVE ASSEMBLY (HI-SIDE) LESS BALL & ARM	AC	1	17FA-105---154--	COND'R SIZE
		NS	1	17FA-115---154--	10, 11, 12, 14, 15, 16, 18, 19
		AC	1	17FA-125---154--	20, 21, 22, 24, 25, 26
9	VALVE ASSEMBLY (LO-SIDE)	AC	1	17FA-105---144--	27, 28, 29, 30, 31, 32
		AC	1	17FA-115---144--	10, 11, 12, 14, 15, 16, 18, 19
		AC	1	17FA-125---144--	20, 21, 22
	INCLUDES: BALL & ARM ASSEMBLY	AC	1	19FA-660---024--	24, 25, 26, 27, 28, 29, 30, 31, 32
10	STRAINER RETAINER	NS	1	17FA-105---103--	10 THRU 19
		NS	1	17FA-525---103--	20 THRU 32
11	CONE STRAINER	AC	1	17FA-105--1083--	10 THRU 19
		AC	1	17FA-525--1083--	20 THRU 32



HERMETIC CENTRIFUGAL CHILLER

19EF

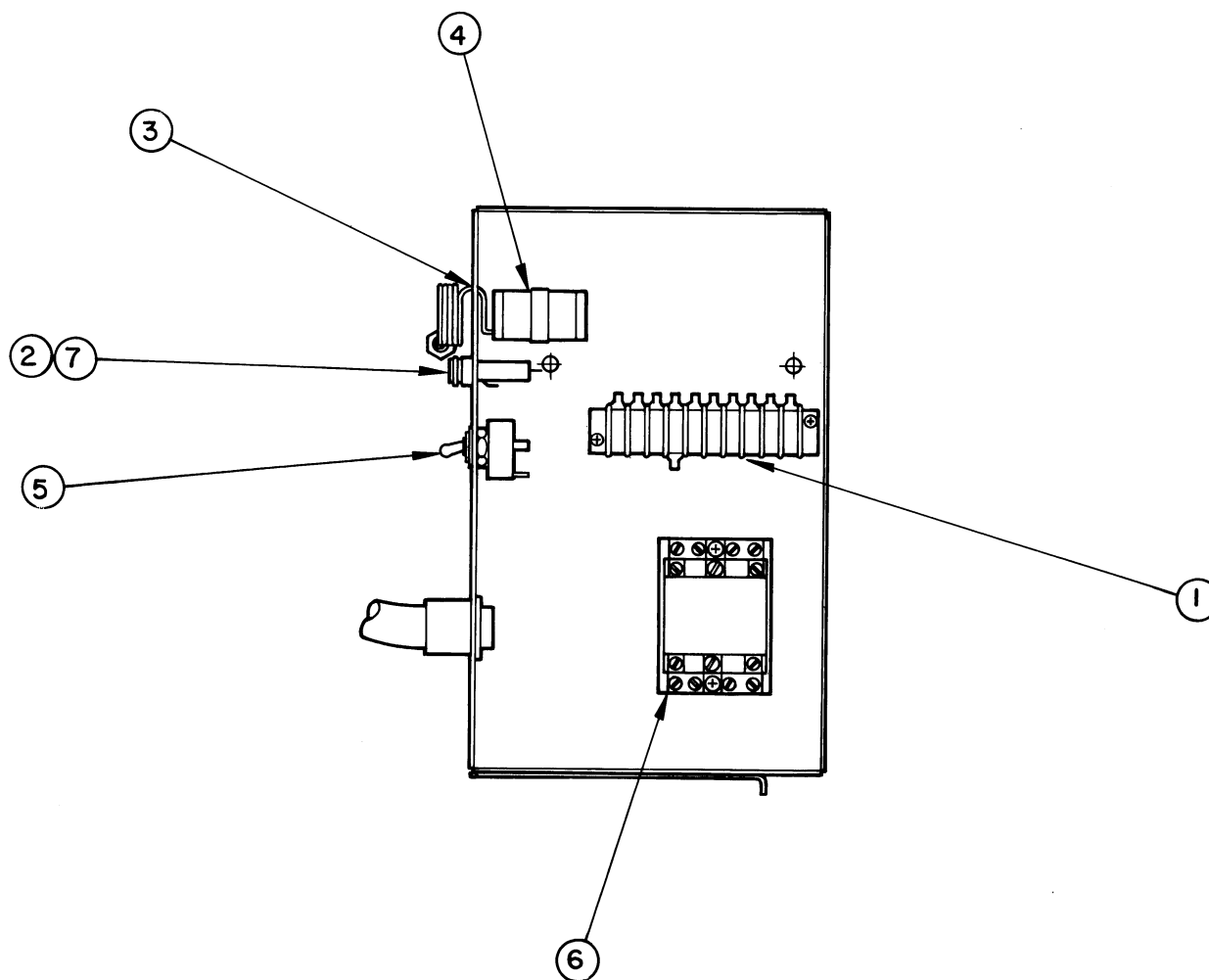
PUMP DOWN ASSEMBLY

ITEM NO.	PART DESCRIPTION	LDC	PUMP ASS'Y	19EA				
				42-	44-	46-	42	47
			NUMBER	658	658	658	668	658
			VOLTAGE	208	230	400/460	220	575
			HERTZ	60		50/60	50	60
			PART NUMBER	QUANTITY				
1	CONDENSER ASSEMBLY INCLUDES: LIQUID VALVE (1) EP12BH-211	AC	-6-D--21---104--	1	1	1	1	1
2	COMPRESSOR BACKSEATING VALVE (DISCH.)	AC	--EN--32AA-212--	1	1	1	1	
3	COMPRESSOR BACKSEATING VALVE (SUCTION)	AC	-5-F--20---660002-	1	1	1	1	
4	VALVE GASKET	AC	-6-D--23--1421--	2	2	2	2	2
5	OIL SEPARATOR	AC	--KH--31LZ-008--	1	1	1	1	1
5A	OIL SEPARATOR GASKET	AC	--KH--31LY-003--	1	1	1	1	1
6	DIAPHRAGM VALVE 3/4"	AC	--EP--10BA-181--	4	4	4	4	4
7	ANGLE VALVE	AC	--EP--20LA-103--	1	1	1	1	1
8	CAPSCREW GASKET 5/16"	MP	--AU--51YA-003--	4	4	4	4	4
9	FLARE GASKET 1/2"	AC	--DD--24FA-151--	1	1	1	1	1
10	SAFETY HEAD	NS	--EB--51LR-185--	1	1	1	1	
11	CONTROL BOX ASSEMBLY		SEE PAGE 31	1	1	1	1	1
12	CONTROL BOX COVER	NS	07DA-500---002--	1	1	1	1	1
13	COMPRESSOR ASSEMBLY (208-3-60) INCLUDES: (230-3-60) (460-3-60; 400-3-50) (220-3-50) (575-3-60)	AC AC AC AC AC	06DM1077GC0400-- 06DM1077GC0500-- 06DM1077GC0600-- 06DM1077GC0800-- 06DM1077GC0100--	1	1	1	1	1
	PISTON&CONNECTING ROD ASS'Y (2)6D20-232	AC						
	VALVE PLATE PACKAGE (1)6D40-163	AC						
	INCLUDES: VALVE PLATE ASSEMBLY (1)NSS*							
	INCLUDES: DISCHARGE VALVE DISC (2)6D75-1062	NSS						
	DISCHARGE VALVE STOP (2)6D75-1072	NSS						
	SUCTION VALVE SPRING (2)6D40-1021	NSS						
	SUCTION VALVE (2)6D45-1072	NSS						
	VALVE PLATE GASKET (1)6D40-1073	NSS						
	CYLINDER HEAD GASKET (1)6D40-1053	NSS						
13A	COMPRESSOR OVERLOAD RELAY (LESS HEATER ELEMENT) MANUAL RESET	NS	19EA--45--6001-1	3	3	3	-	
13B	HEATER ELEMENT (FOR MANUAL RESET OVERLOAD RELAY) (FOR 06DM1076GA0400 COMPRESSOR) (FOR 06DM1076GA0500 COMPRESSOR) (FOR 06DM1076GA0600 COMPRESSOR) (FOR 06DM1076GA0800 COMPRESSOR)	NS NS NS NS	--HN--71LZ-522-- --HN--71LZ-617-- --HN--71LZ-515-- --HN--71LZ-616--	3	3	3	3	

*NSS - NOT SOLD SEPARATELY.

HERMETIC CENTRIFUGAL CHILLER

19EF



ITEM NO.	PART DESCRIPTION	QTY	LDC	PART NUMBER
1	TERMINAL BLOCK	1	AC	--HY--84EG-005--
2	FUSE HOLDER	1	AC	--HY--12FU-021--
3	GROMMET	1	AC	--KA--56XM-040--
4	PRESSURESTAT	1	AC	--HK--01UA-181--
5	TOGGLE SWITCH	1	AC	--HR--53AA-001--
6	CONTACTOR	1	AC	--HN--53CD-115--
7	FUSE (PACKAGE OF 5)	1	AC	--HY--10LJ-003005--

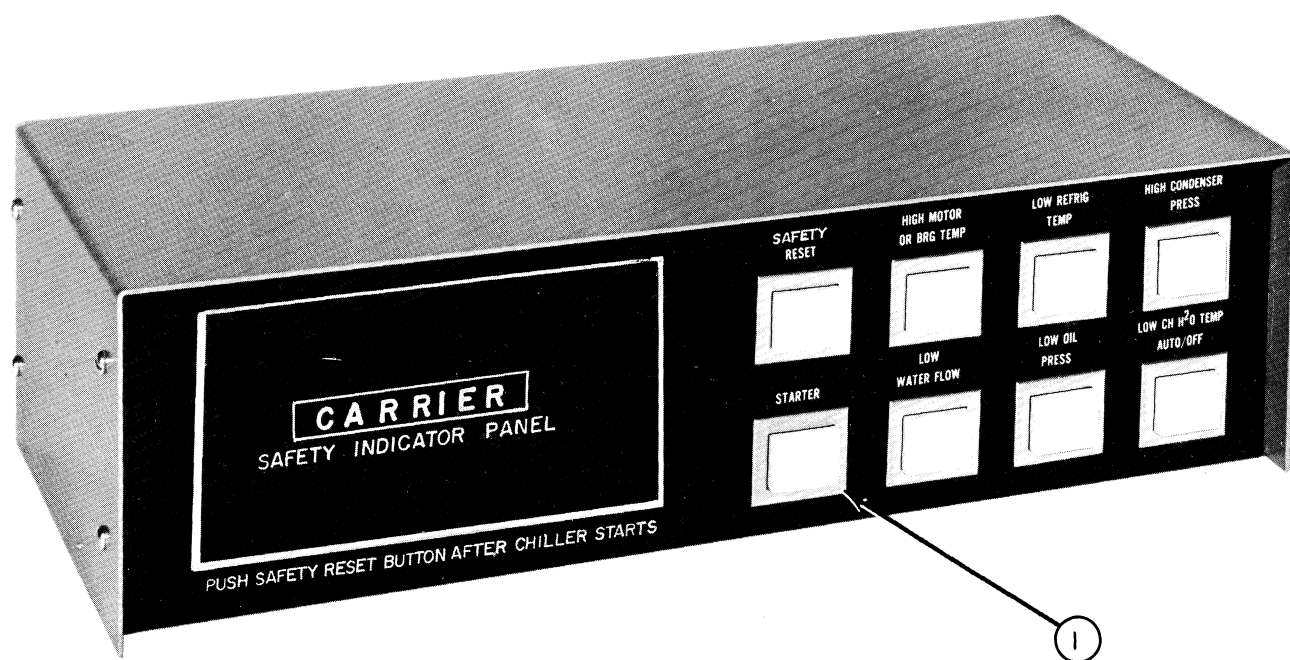




HERMETIC CENTRIFUGAL CHILLER

19EF

ITEM NO.	PART DESCRIPTION	LDC	QTY	PART NUMBER	USED ON
1	TRANSFORMER & LEADS	NS	1	19EA--42---612--	ALL UNITS
2	MODULE ASS'Y, RELAY INCLUDES:	AC	1	32SM-400---694--	ALL UNITS
2A	RELAY	AC	5	--HN--61KL-616--	ALL UNITS
2B	PROGRAM TIMER	AC	1	--HK--25ZD-030--	ALL UNITS
2C	FUSE (PKG OF 5)	AC	1	--HY--10LJ-003005-	ALL UNITS
2D	FUSE HOLDER	AC	1	--HY--12FU-040--	ALL UNITS
2E	LIGHT, INDICATING	AC	2	32SM-400---702--	ALL UNITS
NI/2F	TIMER	AC	1	--HK--25ZD-030--	ALL UNITS
NI/2G	TIMER LABEL	NS	1	32SM-500---712--	ALL UNITS
3	GUAGE, PRESSURE, CONDENSER, COOLER	AC	2	--KM--03BC-390--	ALL UNITS
4	GUAGE, OIL DIFFERENTIAL	AC	1	--KM--05BW-220--	ALL UNITS
5	SWITCH, PUSH BUTTON	AC	1	--HR--52ZD-040--	ALL UNITS
6	SWITCH, PUSH BUTTON	AC	2	--HR--54ZA-020--	ALL UNITS
7	LIGHT, INDICATING	AC	4	--HY--19MM-020--	ALL UNITS
8	MODULE ASS'Y, CAPACITY CONTROL	AC	1	32SM-500---704--	ALL UNITS
9	SWITCH, LOW OIL PRESSURE	AC	1	--HK--06CB-402--	ALL UNITS
10	COUNTER, ELECTRIC	AC	1	--HK--28ZZ-115--	ALL UNITS
11	CONTROL MODULE DUAL SENSOR	AC	2	--HN--65BJ-002--	19FA506-114
12	TRANSFORMER & LEADS	NS	1	19EA--41---612--	19FA506-114
13	SWITCH, COND. IN PRESS. CUTOUT	AC	1	--HK--01UA-183--	19FA506-114
14	DOOR	AC	1	19EA--41--5473--	ALL UNITS
15	TERMINAL BLOCK	AC	1	--HY--84EF-060--	ALL UNITS
16	CAM LOCK	AC	1	--KA--19NL-010--	ALL UNITS
17	STRIP, MAGNETIC	AC	1	19EA--41--5531--	ALL UNITS
18	TERMINAL BLOCK	AC	1	--HY--84EG-002--	ALL UNITS



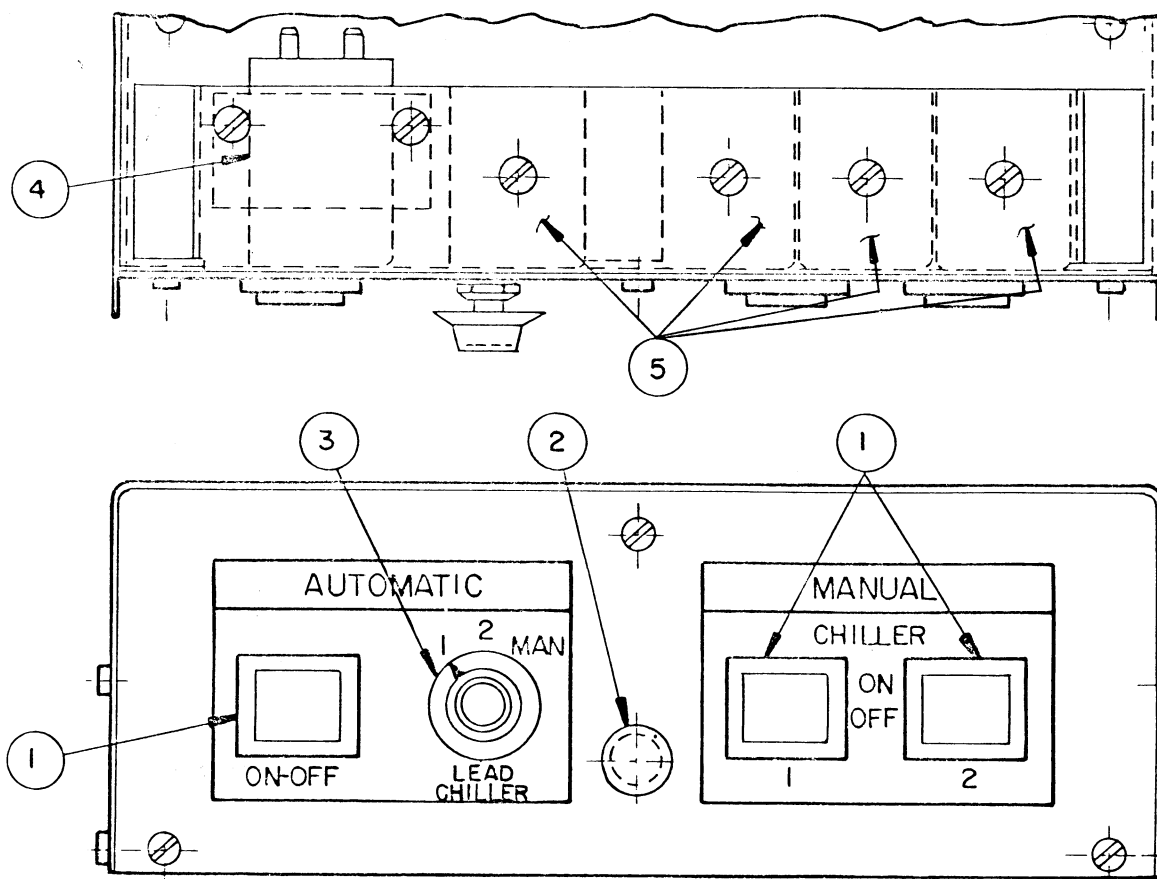
Safety Indicator Panel

32GA900-001

ITEM NO.	PART DESCRIPTION	QTY	LDC	PART NUMBER
1	SWITCH, PUSH BUTTON/LITE	8	AC	--HR--54AZ-020--
NI/2	RELAY	11	AC	--HN--61KL-616--

HERMETIC CENTRIFUGAL CHILLER

19EF



LEAD - LAG CONTROL ASSEMBLY (32SM-900---001--)

ITEM NO.	PART DESCRIPTION	QTY	LDC	PART NUMBER
1	SWITCH	3	AC	--HR--52ZD-020--
2	POTENTIOMETER	1	AC	32SM-500---623--
3	KNOB	1	AC	--KA--21RB-156--
4	RELAY	1	AC	--KN--67SK-007--
5	RELAY	2	AC	--HN--61KJ-615--
6	RELAY	1	AC	--HN--61KK-615--
7	RELAY	1	AC	--HN--61KL-615--



HERMETIC CENTRIFUGAL CHILLER

19EF

ITEM NO.	PART DESCRIPTION	QTY	LDC	PART NUMBER	USED ON
SEPARATE SHIP PARTS					
1	VALVE ASS'Y, 4" ECON	AC	1	19FA-501---123--	SEPARATE SHIP
2	GASKET, SUCTION, 10"	AC	1	19EA--41--1432--	SEPARATE SHIP
3	GASKET, RING, 3/4"	NS	2	--CT--99GX-201--	SEPARATE SHIP
4	GASKET, RING, 1"	AC	2	--CT--99GX-251--	SEPARATE SHIP
5	GASKET, RING, 4"	AC	2	--CT--99GX-601--	SEPARATE SHIP
6	GASKET, SUCTION, 14"	AC	1	19EA--51--1432--	SEPARATE SHIP
7	GASKET, SUCTION, 16"	NS	1	17FA-241--1052--	SEPARATE SHIP
8	GASKET, RING, 2"	AC	2	--CT--99GX-401--	SEPARATE SHIP
9	GASKET, RING, 1/2"	AC	1	--CT--99GX-151--	SEPARATE SHIP
10	STRAINER, FLARE	AC	1	--KH--11NX-100--	SEPARATE SHIP
A	<u>PAINT (HORIZON GREEN)</u> 16 OZ. PRESSURIZED CAN (PKG. OF 6) 5 GALLON CAN	AC AC		--PH--23GH-017006-- 19-P--47---005--	
B	<u>TAPE & INSULATION</u> MOTOR TERMINAL INSULATION SHEET (44" X 56 3/4")	AC AC		19DA-660---002-- --QR0911-C4456--34	
C	<u>BRUSH (TUBE CLEANING)</u> (.750 O.D.)	AC		--KC--21AH-105--	
D	<u>OIL</u> 5 GALLON CAN	AC		--PP--23BB-006--	