



DryCooler & Pump Package Info

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LIEBERT DIRECT DRIVE DRYCOOLER

SECTION I - ELECTRICAL PANEL (MODELS "D*O" or "D*G") SEE NOTE 1			
Find No	Description	Part Number	RSP
	OPTIONAL DISCONNECT SWITCH ASSEMBLY	067-1630	
	Disconnect Switch	E67-0010	X
	Disconnect Mounting Bracket	F67-0670	
	Ground Lug	E-362B	
	75 VA TRANSFORMER, 200-230 VOLT, 50 HZ	E-330A	X
	75 VA TRANSFORMER, 380-415 VOLT, 50 HZ	E-330B	X
	75 VA TRANSFORMER, 208-230 VOLT, 60 HZ	E-007A	X
	75 VA TRANSFORMER, 460 VOLT, 60 HZ	E-007B	X
	75 VA TRANSFORMER, 575 VOLT, 60 HZ	E-007C	X
	3.2 AMP CIRCUIT BREAKER	E-276C	X
	CIRCUIT BREAKER MOUNTING BRACKET	1C10102P1	
	THERMOSTAT, FAN CYCLING ("D*O") ONLY	E02-0100	X
	THERMOSTAT, GLYCOOL CHILLERS ("D*G") ONLY	E-0350	X
	25/30 AMP CONTACTOR, FAN, 1 FAN ("D*O" ONLY)	E-0110	X
	30/40 AMP CONTACTOR, FAN, 2/3/4 FAN ("D*O" ONLY)	E-009F	X
	25/30 AMP CONTACTOR, PUMP	E-0110	X
	2P/2T RELAY, DUAL PUMP PACKAGE ONLY	E-0130	X
	TIME DELAY RELAY, DUAL PUMP PACKAGE ONLY	E-3530	X
	TOGGLE SWITCH, DUAL PUMP PACKAGE ONLY	E-3490	X
REFER TO APPENDIX F FOR FUSE & FUSEBLOCK SELECTIONS			

NOTES:

- 1.) Do not use this section for drycooler models with a "DN*" prefix.

LIEBERT DIRECT DRIVE DRYCOOLER (Continued)

SECTION II - ELECTRICAL PANEL (MODELS "D*F") SEE NOTE 1			
Find No	Description	Part Number	RSP
	OPTIONAL DISCONNECT SWITCH ASSEMBLY	067-1630	
	Disconnect Switch	E67-0010	X
	Disconnect Mounting Bracket	F67-0670	
	Ground Lug	E-362B	
	75 VA TRANSFORMER, 200-230 VOLT, 50 HZ	E-330A	X
	75 VA TRANSFORMER, 380-415 VOLT, 50 HZ	E-330B	X
	75 VA TRANSFORMER, 208-230 VOLT, 60 HZ	E-007A	X
	75 VA TRANSFORMER, 460 VOLT, 60 HZ	E-007B	X
	75 VA TRANSFORMER, 575 VOLT, 60 HZ	E-007C	X
	1.5 KVA TRANSFORMER, 460 VOLT, 60 HZ ONLY	E-0010	X
	1.5 KVA TRANSFORMER, 575 VOLT, 60 HZ ONLY	E-0020	X
	3.2 AMP CIRCUIT BREAKER	E-276C	X
	CIRCUIT BREAKER MOUNTING BRACKET	F02-4380	
	20/30 AMP CONTACTOR, FAN & PUMP	E-011A	X
	FAN SPEED CONTROL (F.S.C.)	E-325A	X
	FAN SPEED CONTROL SENSOR	E-325B	X
	20 MFD CAPACITOR	B-095B	X
	CAPACITOR BOOT	B-1450	
	CAPACITOR STRAP	S67-0010	
	VARISTER	G-200B	X
REFER TO APPENDIX F FOR FUSE & FUSEBLOCK SELECTIONS			

NOTES:

- 1.) Do not use this section for drycooler models with a "DN*" prefix.

LIEBERT DIRECT DRIVE DRYCOOLER (Continued)

SECTION III - FAN MOTOR			
Find No	Description	Part Number	RSP
	.75 H.P. FAN SPEED CONTROL MOTOR	B-095C	X
	.75 H.P. CONSTANT SPEED FAN MOTOR, 200-460 VOLT	B67-0010	X
	.75 H.P. CONSTANT SPEED FAN MOTOR, 575 VOLT	1C16992P1	X
	SLINGER RING (RAIN GUARD), FAN SPEED MOTOR	D-1830	X
	FAN MOTOR MOUNTING ANGLE	F69-0270	
	FANBLADE	D67-003A	X
	METAL FAN GUARD	D67-003B	

SECTION IV - COIL			
Find No	Description	Part Number	RSP
	COIL ASSEMBLY, D** 069, 8 CIRCUITS	1D10088G1	
	COIL ASSEMBLY, D** 092, 12 CIRCUITS	1D10092G1	
	COIL ASSEMBLY, D** 109, 16 CIRCUITS	1D10090G1	
	COIL ASSEMBLY, D** 112, 16 CIRCUITS	1D10095G1	
	COIL ASSEMBLY, D** 139, 16 CIRCUITS	1D10089G1	
	COIL ASSEMBLY, D** 174, 16 CIRCUITS	1D10093G1	
	COIL ASSEMBLY, D** 225, 26 CIRCUITS	1D10096G1	
	COIL ASSEMBLY, D** 260, 24 CIRCUITS	1D10094G1	
	COIL ASSEMBLY, D** 310, 32 CIRCUITS	1D10091G1	
	COIL ASSEMBLY, D** 350, 32 CIRCUITS	1D10097G1	
	COIL ASSEMBLY, D** 352, 24 CIRCUITS	1D13283G1	
	COIL ASSEMBLY, D** 419, 32 CIRCUITS	1D13284G1	
	COIL ASSEMBLY, D** 466, 40 CIRCUITS	1D13279G1	
	COIL ASSEMBLY, D** 491, 48 CIRCUITS	1D13280G1	

LIEBERT DIRECT DRIVE DRYCOOLER (Continued)

SECTION V - EXTERIOR PANELS			
Find No	Description	Part Number	RSP
	TOP PANEL, FAN 1 (ALSO COVERS TOP OF ELECTRIC BOX)	F67-0140	
	TOP PANEL, AUXILLARY FAN (ONE PER AUXILLARY FAN)	1D13454P1	
	ELECTRIC BOX COVER	F67-0300	
	HEADER COVER	F67-0310	
	END PANEL	F67-0260	
	RIGHT SIDE PANEL, 1 FAN	F67-0180	
	LEFT SIDE PANEL, 1 FAN	F67-0190	
	RIGHT SIDE PANEL, 2 FAN	F67-0200	
	LEFT SIDE PANEL, 2 FAN	F67-0210	
	RIGHT SIDE PANEL, 3 FAN	F67-0220	
	LEFT SIDE PANEL, 3 FAN	F67-0230	
	RIGHT FRONT SIDE PANEL, 4 FAN	F67-0200	
	LEFT FRONT SIDE PANEL, 4 FAN	F67-0210	
	RIGHT REAR SIDE PANEL, 4 FAN	1D13452P1	
	LEFT REAR SIDE PANEL, 4 FAN	1D13453P1	

SECTION VI - INSTALLATION KITS			
Find No	Description	Part Number	RSP
	INSTALLATION KIT, 1/2/3 FAN	067-0260	
	Leg (4 Supplied)	F67-0440	
	INSTALLATION KIT, 4 FAN	067-6160	
	Leg (6 Supplied)	F67-0440	

APPENDIX F

LIEBERT DIRECT DRIVE DRYCOOLER FUSE & FUSEBLOCK SELECTIONS

VOLT	HERTZ	F.S.C	FAN SPEED MOTOR			LINE VOLTAGE		
			AMP	FUSE	FUSEBLOCK	AMP	FUSE	FUSEBLOCK
200	50	YES		N/A		30.0	E-2090	E-6040
208	60	YES		N/A		30.0	E-2090	E-6040
230	50	YES		N/A		30.0	E-2090	E-6040
230	60	YES		N/A		30.0	E-2090	E-6040
460	60	YES	4.0	E-2860	E-1030	15.0	E-2410	E-1060
575	60	YES	3.2	E-1960	E-1030	15.0	E-2410	E-1060
200	50	NO		N/A		15.0	E-2070	E-1020
208	60	NO		N/A		15.0	E-2070	E-1020
230	50	NO		N/A		15.0	E-2070	E-1020
230	60	NO		N/A		15.0	E-2070	E-1020
400	50	NO		N/A		15.0	E-2410	E-1050
460	60	NO		N/A		15.0	E-2410	E-1050
575	60	NO		N/A		15.0	E-2410	E-1050

NOTES:

- 1.) All models supplied with Diaz type fuses are supplied with the following protection devices for the line voltage:

E-202A FUSE

E-202B FUSE ADAPTER

E-362A FUSE BASE

E-3640 FUSE CAP

These units are not supplied with any protection devices for the Fan Speed Control motor.

APPENDIX G

DIRECT DRIVE DRYCOOLER MODEL SELECTIONS ACCOMMODATE II/CHALLENGER II/FS-US

MODEL NUMBER	HZ	AMBIENT 1	AMBIENT 2	AMBIENT 3	AMBIENT 4	AMBIENT 5
AU 24G/L	50	N/A	D15-0020*	N/A	N/A	N/A
AU 25G/L	60	N/A	N/A	D15-0020*	N/A	N/A
CU/CF 41G	50	DSF-069	DSF-069	N/A	N/A	N/A
CU/CF 41G	60	N/A	N/A	DSF-092	N/A	N/A
CU/CF 60G	50	DSF-069	DSF-069	N/A	N/A	N/A
CU/CF 60G	60	N/A	N/A	DSF-109	N/A	DSF-108
FS/US 39G	50	D**-069	D**-069	D**-069	D**-069	N/A
FS/US 39G	60	N/A	N/A	D**-069	D**-069	D**-069
FS/US 62G	50	D**-069	D**-069	D**-069	D**-092	N/A
FS/US 62G	60	N/A	N/A	D**-092	D**-092	D**-112

* Drycooler D15-0020 is not manufactured by Liebert. Refer to APPENDIX for control box selection.

AMBIENT 1

85°F (29.4°C) @ Less Than 5,000 Ft. (1,524 M) Above Sea Level

AMBIENT 2

90°F (32.2°C) @ Less Than 5,000 Ft. (1,524 M) Above Sea Level

-OR-

85°F (29.4°C) @ More Than 5,000 Ft. (1,524 M) Above Sea Level

AMBIENT 3

95°F (35.0°C) @ Less Than 5,000 Ft. (1,524 M) Above Sea Level

-OR-

90°F (32.2°C) @ More Than 5,000 Ft. (1,524 M) Above Sea Level

AMBIENT 4

100°F (37.8°C) @ Less Than 5,000 Ft. (1,524 M) Above Sea Level

-OR-

95°F (35.0°C) @ More Than 5,000 Ft. (1,524 M) Above Sea Level

AMBIENT 5

105°F (40.1°C) @ Less Than 5,000 Ft. (1,524 M) Above Sea Level

-OR-

100°F (37.8°C) @ More Than 5,000 Ft. (1,524 M) Above Sea Level

APPENDIX G (Continued)

DIRECT DRIVE DRYCOOLER MODEL SELECTIONS (Continued)
SYSTEM/3 & CHILLER SERIES 3000

MODEL NUMBER	HZ	AMBIENT 1*	AMBIENT 2*	AMBIENT 3*	AMBIENT 4*	AMBIENT 5*
FH/UH 72G	50	D**-092	D**-109	D**-139	D**-225	N/A
FH/UH 72G	60	N/A	N/A	D**-112	D**-139	D**-225
FH/UH 110G	50	D**-112	D**-139	D**-174	D**-260	N/A
FH/UH 110G	60	N/A	N/A	D**-174	D**-225	D**-350
FH/UH 116G	50	D**-174	D**-174	D**-225	D**-310	N/A
FH/UH 116G	60	N/A	N/A	D**-174	D**-260	D**-350
FH/UH 192G	50	D**-174	D**-225	D**-260	D**-352	N/A
FH/UH 192G	60	N/A	N/A	D**-260	D**-350	D**-419
FH/UH 240G	50	D**-225	D**-225	D**-260	D**-350	N/A
FH/UH 240G	60	N/A	N/A	D**-310	D**-350	D**-466
FH/UH 265G	50	D**-260	D**-260	D**-350	D**-466	N/A
FH/UH 265G	60	N/A	N/A	D**-350	D**-466	N/A
AS-53G	50	D**-069	D**-069	D**-069	D**-069	N/A
AS-63G	60	N/A	N/A	D**-069	D**-069	D**-069
AS-89G	50	D**-069	D**-069	D**-092	D**-092	N/A
AS-103G	60	N/A	N/A	D**-092	D**-092	D**-112
AS-167G	50	D**-092	D**-112	D**-139	D**-174	N/A
AS-169G	60	N/A	N/A	D**-109	D**-112	D**-139
AS-203G	60	N/A	N/A	D**-139	D**-174	D**-174
AS-211G	50	D**-139	D**-174	D**-174	D**-260	N/A
AS-251G	60	N/A	N/A	D**-225	D**-260	D**-310
CS-27G	50	D**-069	D**-069	D**-069	D**-069	N/A
CS-32G	60	N/A	N/A	D**-069	D**-069	D**-069
CS-45G	50	D**-069	D**-069	D**-092	D**-092	N/A
CS-52G	60	N/A	N/A	D**-092	D**-092	D**-112
CS-84G	50	D**-092	D**-112	D**-139	D**-174	N/A
CS-85G	60	N/A	N/A	D**-109	D**-112	D**-139
CS-102G	60	N/A	N/A	D**-139	D**-174	D**-174
CS-106G	50	D**-139	D**-174	D**-174	D**-260	N/A
CS-126G	60	N/A	N/A	D**-225	D**-260	D**-310
CD-54G**	50	D**-069	D**-069	D**-069	D**-069	N/A
CD-64G**	60	N/A	N/A	D**-069	D**-069	D**-069
CD-90G**	50	D**-069	D**-069	D**-092	D**-092	N/A
CD-104G**	60	N/A	N/A	D**-092	D**-092	D**-112
CD-168G**	50	D**-092	D**-112	D**-1309	D**-174	N/A
CD-170G**	60	N/A	N/A	D**-109	D**-112	D**-139
CD-204G**	60	N/A	N/A	D**-139	D**-174	D**-174
CD-212G**	50	D**-139	D**-174	D**-174	D**-260	N/A
CD-252G**	60	N/A	N/A	D**-225	D**-260	D**-310

* REFER TO PREVIOUS PAGE FOR AMBIENT DESCRIPTIONS

** MODELS WITH A "CD" PREFIX REQUIRE TWO(2) DRYCOOLERS PER UNIT

APPENDIX A (Continued)
MODEL NUMBER BREAKDOWNS

LIEBERT DIRECT DRIVE DRYCOOLERS

EXAMPLE: D D N C 1 1 2 A 2 6 D

DISCONNECT SWITCH DESIGNATION-----

If the TYPE OF PUMP PACKAGE (see below) is designated as "N" then a letter "D" in this position designates that a locking disconnect is supplied. Models with a PUMP PACKAGE TYPE of "D" or "S" are automatically supplied with a locking disconnect.

DRYCOOLER DESIGNATION-----

TYPE OF PUMP PACKAGE-----

D - Dual
N - None
S - Single

CONTROL CODE-----

C - No Control
F - Fan Speed Control with Pump
G - Standard GLYCOOL Chiller Series 3000 Control
L - Main Control (Single Contactor; No Pumps)
T - Fan Cycling Control (Thermostat Controlled; No Pumps)
O - Fan Cycling Control with Pump (Standard Controls)
S - Special Control

CAPACITY (BTU/HR)-----

069 (1 Fan; 8 Circuits)	260 (3 Fan; 24 Circuits)
092 (1 Fan; 12 Circuits)	310 (3 Fan; 32 Circuits)
109 (1 Fan; 16 Circuits)	350 (3 Fan; 32 Circuits)
112 (1 Fan; 16 Circuits)	352 (4 Fan; 24 Circuits)
139 (2 Fan; 16 Circuits)	419 (4 Fan; 32 Circuits)
174 (2 Fan; 16 Circuits)	466 (4 Fan; 40 Circuits)
225 (2 Fan; 26 Circuits)	491 (4 Fan; 48 Circuits)

VOLTAGE-----

A - 460/3/60	V - 575/1/60
B - 575/3/60	W - 200-230/1/50
M - 380-415/3/50	Y - 208-230/3/60
N - 200-230/3/50	Z - 460/1/60
P - 208-230/1/60	

SPECIAL NUMBER OF CIRCUITS-----

If the number of circuits is other than the standard (see CAPACITY above) the special number of circuits will be designated in this position.

DIAZ FUSE DESIGNATION-----

PIGGYBACK DRYCOOLER (Continued)
PD*102/PD*133/PD*150 (Continued)

SECTION IV - COIL			
Find No	Description	Part Number	RSP
	COIL, PD*102	X02-002S	
	COIL, PD*133 & PD*150	X02-003S	
	COIL DRAIN PAN	F20-2460	

SECTION V - PIPING			
Find No	Description	Part Number	RSP
	1.5 H.P. PUMP, 208-460 VOLT	P-281A	X
	1.5 H.P. PUMP, 575 VOLT	P-281B	X
	2.0 H.P. PUMP, 208-460 VOLT	P-381B	X
	2.0 H.P. PUMP, 575 VOLT	P-381C	X
	3.0 H.P. PUMP, 208-460 VOLT	P-296A	X
	3.0 H.P. PUMP, 575 VOLT	P-296B	X
	3-WAY VALVE, PD*102 & PD*133	P-3600	X
	3-WAY VALVE, PD*150	P-4390	X
	EXPANSION TANK	P-2840	X
	GATE VALVE, PD*102 & PD*133 WITH PUMP(S)	P07-0080	
	GATE VALVE, PD*150 WITH PUMP(S)	P07-0110	
	CHECK VALVE, DUAL PUMPS ONLY	P-411D	
	FLOW SWITCH, DUAL PUMPS ONLY	P-4120	
	MODULATING MOTOR ASSEMBLY, NO PUMPS or DUAL PUMPS	026-0026	
	Modulating Motor	M-0010	X
	Linkage	M-0050	X
	Wire Harness	022-3295	
	MODULATING MOTOR ASSEMBLY, SINGLE PUMP	1C14124G1	
	Modulating Motor	M-0010	X
	Linkage	M-0050	X
	Wire Harness	1C14114G1	

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PB210G.....	1
PD*102/PD*133/PD*150.....	6
PD*223/PD*290/PD*333.....	11
<u>INCLUDES:</u>	
COIL	
COIL DRAIN PAN	

SECTION V - PIPING

PB210G.....	2
PD*102/PD*133/PD*150.....	6
PD*223/PD*290/PD*333.....	11
<u>INCLUDES:</u>	
3-WAY VALVE	
CHECK VALVE	
COMPLETE MODULATING MOTOR ASSEMBLY	
EXPANSION TANK	
FLOW SWITCH	
GATE VALVE	
LINKAGE	
MODULATING MOTOR	
PUMP	
RELIEF VALVE	
WIRE HARNESS (FOR MODULATING MOTOR ASSEMBLY)	

SECTION VI - EXTERIOR PANELS

PB210G.....	2
PD*102/PD*133/PD*150.....	7
PD*223/PD*290/PD*333.....	12
<u>INCLUDES:</u>	
ALUMINUM TRIM	
COMPLETE EXTERIOR PANEL ASSEMBLY	
DISCONNECT SWITCH BEZEL	
DZUS FASTENER PART	
FRONT EXTERIOR PANEL	
LIEBERT NAMEPLATE	
SIDE EXTERIOR PANEL	
TOP COVER	

SECTION VII - FILTER

PD*102/PD*133/PD*150.....	7
PD*223/PD*290/PD*333.....	12
<u>INCLUDES:</u>	
FILTER	

PIGGYBACK DRYCOOLER (Continued)
PD*223/PD*290/PD*333 (Continued)

SECTION IV - COIL			
Find No	Description	Part Number	RSP
	COIL, PD*223	X02-004S	
	COIL, PD*290 & PD*333	X02-006S	
	COIL DRAIN PAN	F20-247C	

SECTION V - PIPING			
Find No	Description	Part Number	RSP
	3.0 H.P. PUMP, 208-460 VOLT	P-296A	X
	3.0 H.P. PUMP, 575 VOLT	P-296B	X
	5.0 H.P. PUMP, 208-460 VOLT	P02-001A	X
	5.0 H.P. PUMP, 575 VOLT	P02-001B	X
	3-WAY VALVE	P-4390	X
	EXPANSION TANK	P-284C	X
	GATE VALVE	P07-0110	
	CHECK VALVE, DUAL PUMPS ONLY	P-4110	
	FLOW SWITCH, DUAL PUMPS ONLY	P-4120	
	MODULATING MOTOR ASSEMBLY, NO PUMPS or DUAL PUMPS	026-0026	
	Modulating Motor	M-0010	X
	Linkage	M-0050	X
	Wire Harness	022-3295	
	MODULATING MOTOR ASSEMBLY, SINGLE PUMP	1C14124G1	
	Modulating Motor	M-0010	X
	Linkage	M-0050	X
	Wire Harness	1C14114G1	

PUMP PACKAGES FOR LIEBERT DRYCOOLERS

THIS SECTION IS SUPPORTED BY THE INDEX AND THE
FOLLOWING APPENDIXES:

APPENDIX A - MODEL NUMBER BREAKDOWN
APPENDIX G - SELECTION CHART

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SECTION I - SINGLE PUMP PACKAGE

CHALLENGER II/SYSTEM III/GLYCOL CHILLERS

.75 H.P.....	1
1.0 H.P.....	1
1.5 H.P.....	2
2.0 H.P.....	3
3.0 H.P.....	5
5.0 H.P.....	7

GLYCOL CHILLERS

ALL.....	15
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INCLUDES:

3-WAY VALVE
COMPLETE SINGLE PUMP PACKAGE
COMPRESSION TANK
COVER
EXPANSION TANK
FUSE
HEATER
HEATER & FUSE KIT
INSTRUCTIONS (FOR HEATER & FUSE KIT)
LINKAGE
MODULATING MOTOR
PUMP
PUMP PACKAGE MOUNTING ANGLE
RELIEF VALVE
SINGLE PUMP BASE
SINGLE PUMP HOUSING
SINGLE PUMP PACKAGE
WRAPPER

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CHALLENGER II/SYSTEM III/GLYCOL CHILLERS

.75 H.P.....	8
1.0 H.P.....	8
1.5 H.P.....	9
2.0 H.P.....	10
3.0 H.P.....	12
5.0 H.P.....	14

INCLUDES:

COMPLETE DUAL PUMP PACKAGE
COVER
DUAL PUMP BASE
DUAL PUMP HOUSING
DUAL PUMP PACKAGE
EXPANSION TANK
FLOW SWITCH
FUSE
HEATER
HEATER & FUSE KIT
INSTRUCTIONS (FOR HEATER & FUSE KIT)
PUMP
PUMP PACKAGE MOUNTING ANGLE
WRAPPER

GLYCOL PUMP PACKAGE FOR LIEBERT DRYCOOLERS
CHALLENGER II/SYSTEM III/GLYCOL CHILLERS

SECTION I - SINGLE PUMP PACKAGE			
Find No	Description	Part Number	RSP
	COMPLETE SINGLE PUMP PACKAGE, .75 H.P., 208/1/60	S 3/4P	
	Expansion Tank	P-2840	
	.75 H.P., Single Pump Package	1D10153G3	
	.75 H.P. Pump	P13-0030	X
	Single Pump Housing	1D10118G8	
	Wrapper (One Half of Housing) 2 Supplied	F20-2350	
	Cover	F20-2360	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Single Pump Base	F20-2440	
	COMPLETE SINGLE PUMP PACKAGE, .75 H.P., 200/1/50	S 3/4W	
	Expansion Tank	P-2840	
	.75 H.P., Single Pump Package	1D10153G4	
	.75 H.P. Pump	P13-0060	X
	Single Pump Housing	1D10118G8	
	Wrapper (One Half of Housing) 2 Supplied	F20-2350	
	Cover	F20-2360	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Single Pump Base	F20-2440	
	COMPLETE SINGLE PUMP PACKAGE, 1.0 H.P., 380/3/50	S 1M	
	Expansion Tank	P-2840	
	1.0 H.P., Single Pump Package	1D10153G5	
	1.0 H.P. Pump	P-280B	X
	Single Pump Housing	1D10118G8	
	Wrapper (One Half of Housing) 2 Supplied	F20-2350	
	Cover	F20-2360	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Single Pump Base	F20-2440	
	Heater & Fuse Kit	1C11288G13	
	E-32 Heater (3 Supplied)	E-0860	X
	15.0 Amp Fuse (3 Supplied)	E-2410	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X
	COMPLETE SINGLE PUMP PACKAGE, 1.0 H.P., 200/3/50	S 1N	
	Expansion Tank	P-2840	
	1.0 H.P., Single Pump Package	1D10153G5	
	1.0 H.P. Pump	P-280B	X
	Single Pump Housing	1D10118G8	
	Wrapper (One Half of Housing) 2 Supplied	F20-2350	
	Cover	F20-2360	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Single Pump Base	F20-2440	
	Heater & Fuse Kit	1C11288G15	
	E-44 Heater (3 Supplied)	E-0910	X
	15.0 Amp Fuse (3 Supplied)	E-2070	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X

GLYCOL PUMP PACKAGE FOR LIEBERT DRYCOOLERS (Continued)
CHALLENGER II/SYSTEM III/GLYCOL CHILLERS (Continued)

SECTION I - SINGLE PUMP PACKAGE (Continued)			
Find No	Description	Part Number	RSP
	COMPLETE SINGLE PUMP PACKAGE, 1.5 H.P., 460/3/60	S 1.5A	
	Expansion Tank	P-2840	
	1.5 H.P., Single Pump Package	1D10153G8	
	1.5 H.P. Pump	P-281A	X
	Single Pump Housing	1D10118G8	
	Wrapper (One Half of Housing) 2 Supplied	F20-2350	
	Cover	F20-2360	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Single Pump Base	F20-2440	
	Heater & Fuse Kit	1C11288G3	
	E-34 Heater (3 Supplied)	E-2610	X
	15.0 Amp Fuse (3 Supplied)	E-2410	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X
	COMPLETE SINGLE PUMP PACKAGE, 1.5 H.P., 575/3/60	S 1.5B	
	Expansion Tank	P-2840	
	1.5 H.P., Single Pump Package	1D10153G9	
	1.5 H.P. Pump	P-281B	X
	Single Pump Housing	1D10118G8	
	Wrapper (One Half of Housing) 2 Supplied	F20-2350	
	Cover	F20-2360	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Single Pump Base	F20-2440	
	Heater & Fuse Kit	1C11288G5	
	E-29 Heater (3 Supplied)	E-1840	X
	15.0 Amp Fuse (3 Supplied)	E-2410	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X
	COMPLETE SINGLE PUMP PACKAGE, 1.5 H.P., 380/3/50	S 1.5M	
	Expansion Tank	P-2840	
	1.5 H.P., Single Pump Package	1D10153G7	
	1.5 H.P. Pump	P-280A	X
	Single Pump Housing	1D10118G8	
	Wrapper (One Half of Housing) 2 Supplied	F20-2350	
	Cover	F20-2360	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Single Pump Base	F20-2440	
	Heater & Fuse Kit	1C11288G24	
	E-37 Heater (3 Supplied)	E-0870	X
	15.0 Amp Fuse (3 Supplied)	E-2410	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X

GLYCOL PUMP PACKAGE FOR LIEBERT DRYCOOLERS (Continued)
CHALLENGER II/SYSTEM III/GLYCOL CHILLERS (Continued)

SECTION I - SINGLE PUMP PACKAGE (Continued)			
Find No	Description	Part Number	RSP
	COMPLETE SINGLE PUMP PACKAGE, 1.5 H.P., 200/3/50	S 1.5N	
	Expansion Tank	P-2840	
	1.5 H.P., Single Pump Package	1D10153G10	
	1.5 H.P. Pump	P-5070	X
	Single Pump Housing	1D10118G8	
	Wrapper (One Half of Housing) 2 Supplied	F20-2350	
	Cover	F20-2360	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Single Pump Base	F20-2440	
	Heater & Fuse Kit	1C11288G4	
	E-48 Heater (3 Supplied)	E-0940	X
	15.0 Amp Fuse (3 Supplied)	E-2070	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X
	COMPLETE SINGLE PUMP PACKAGE, 1.5 H.P., 208/3/60	S 1.5Y	
	Expansion Tank	P-2840	
	1.5 H.P., Single Pump Package	1D10153G8	
	1.5 H.P. Pump	P-281A	X
	Single Pump Housing	1D10118G8	
	Wrapper (One Half of Housing) 2 Supplied	F20-2350	
	Cover	F20-2360	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Single Pump Base	F20-2440	
	Heater & Fuse Kit	1C11288G1	
	E-44 Heater (3 Supplied)	E-0910	X
	15.0 Amp Fuse (3 Supplied)	E-2070	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X
	COMPLETE SINGLE PUMP PACKAGE, 2.0 H.P., 460/3/60	S 2A	
	Expansion Tank	P-2840	
	2.0 H.P., Single Pump Package	1D10153G12	
	2.0 H.P. Pump	P-381B	X
	Single Pump Housing	1D10118G8	
	Wrapper (One Half of Housing) 2 Supplied	F20-2350	
	Cover	F20-2360	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Single Pump Base	F20-2440	
	Heater & Fuse Kit	1C11288G2	
	E-38 Heater (3 Supplied)	E-0860	X
	15.0 Amp Fuse (3 Supplied)	E-2410	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X

GLYCOL PUMP PACKAGE FOR LIEBERT DRYCOOLERS (Continued)
CHALLENGER II/SYSTEM III/GLYCOL CHILLERS (Continued)

SECTION I - SINGLE PUMP PACKAGE (Continued)			
Find No	Description	Part Number	RSP
	COMPLETE SINGLE PUMP PACKAGE, 2.0 H.P., 575/3/60	S 2B	
	Expansion Tank	P-2840	
	2.0 H.P., Single Pump Package	1D10153G13	
	2.0 H.P. Pump	P-381C	X
	Single Pump Housing	1D10118G8	
	Wrapper (One Half of Housing) 2 Supplied	F20-2350	
	Cover	F20-2360	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Single Pump Base	F20-2440	
	Heater & Fuse Kit	1C11288G3	
	E-34 Heater (3 Supplied)	E-2610	X
	15.0 Amp Fuse (3 Supplied)	E-2410	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X
	COMPLETE SINGLE PUMP PACKAGE, 2.0 H.P., 380/3/50	S 2M	
	Expansion Tank	P-2840	
	2.0 H.P., Single Pump Package	1D10153G11	
	2.0 H.P. Pump	P-282A	X
	Single Pump Housing	1D10118G8	
	Wrapper (One Half of Housing) 2 Supplied	F20-2350	
	Cover	F20-2360	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Single Pump Base	F20-2440	
	Heater & Fuse Kit	1C11288G7	
	E-41 Heater (3 Supplied)	E-2660	X
	15.0 Amp Fuse (3 Supplied)	E-2410	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X
	COMPLETE SINGLE PUMP PACKAGE, 2.0 H.P., 200/3/50	S 2N	
	Expansion Tank	P-2840	
	2.0 H.P., Single Pump Package	1D10153G14	
	2.0 H.P. Pump	P-5080	X
	Single Pump Housing	1D10118G8	
	Wrapper (One Half of Housing) 2 Supplied	F20-2350	
	Cover	F20-2360	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Single Pump Base	F20-2440	
	Heater & Fuse Kit	1C11288G9	
	E-52 Heater (3 Supplied)	E-0960	X
	15.0 Amp Fuse (3 Supplied)	E-2070	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X

GLYCOL PUMP PACKAGE FOR LIEBERT DRYCOOLERS (Continued)
CHALLENGER II/SYSTEM III/GLYCOL CHILLERS (Continued)

SECTION I - SINGLE PUMP PACKAGE (Continued)			
Find No	Description	Part Number	RSP
	COMPLETE SINGLE PUMP PACKAGE, 2.0 H.P., 208/3/60	S 2Y	
	Expansion Tank	P-2840	
	2.0 H.P., Single Pump Package	1D10153G12	
	2.0 H.P. Pump	P-381B	X
	Single Pump Housing	1D10118G8	
	Wrapper (One Half of Housing) 2 Supplied	F20-2350	
	Cover	F20-2360	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Single Pump Base	F20-2440	
	Heater & Fuse Kit	1C11288G6	
	E-49 Heater (3 Supplied)	E-1810	X
	15.0 Amp Fuse (3 Supplied)	E-2070	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X
	COMPLETE SINGLE PUMP PACKAGE, 3.0 H.P., 460/3/60	S 3A	
	Expansion Tank	P-2840	
	3.0 H.P., Single Pump Package	1D10153G16	
	3.0 H.P. Pump	P-296A	X
	Single Pump Housing	1D10118G8	
	Wrapper (One Half of Housing) 2 Supplied	F20-2350	
	Cover	F20-2360	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Single Pump Base	F20-2440	
	Heater & Fuse Kit	1C11288G7	
	E-41 Heater (3 Supplied)	E-2660	X
	15.0 Amp Fuse (3 Supplied)	E-2410	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X
	COMPLETE SINGLE PUMP PACKAGE, 3.0 H.P., 575/3/60	S 3B	
	Expansion Tank	P-2840	
	3.0 H.P., Single Pump Package	1D10153G17	
	3.0 H.P. Pump	P-296B	X
	Single Pump Housing	1D10118G8	
	Wrapper (One Half of Housing) 2 Supplied	F20-2350	
	Cover	F20-2360	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Single Pump Base	F20-2440	
	Heater & Fuse Kit	1C11288G2	
	E-38 Heater (3 Supplied)	E-0880	X
	15.0 Amp Fuse (3 Supplied)	E-2410	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X

GLYCOL PUMP PACKAGE FOR LIEBERT DRYCOOLERS (Continued)
CHALLENGER II/SYSTEM III/GLYCOL CHILLERS (Continued)

SECTION I - SINGLE PUMP PACKAGE (Continued)			
Find No	Description	Part Number	RSP
	COMPLETE SINGLE PUMP PACKAGE, 3.0 H.P., 380/3/50	S 3M	
	Expansion Tank	P-2840	
	3.0 H.P., Single Pump Package	1D10153G15	
	3.0 H.P. Pump	P-285A	X
	Single Pump Housing	1D10118G8	
	Wrapper (One Half of Housing) 2 Supplied	F20-2350	
	Cover	F20-2360	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Single Pump Base	F20-2440	
	Heater & Fuse Kit	1C11288G7	
	E-44 Heater (3 Supplied)	E-0910	X
	15.0 Amp Fuse (3 Supplied)	E-2410	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X
	COMPLETE SINGLE PUMP PACKAGE, 3.0 H.P., 200/3/50	S 3N	
	Expansion Tank	P-2840	
	3.0 H.P., Single Pump Package	1D10153G18	
	3.0 H.P. Pump	P-5090	X
	Single Pump Housing	1D10118G8	
	Wrapper (One Half of Housing) 2 Supplied	F20-2350	
	Cover	F20-2360	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Single Pump Base	F20-2440	
	Heater & Fuse Kit	1C11288G11	
	E-53 Heater (3 Supplied)	E-0970	X
	15.0 Amp Fuse (3 Supplied)	E-2070	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X
	COMPLETE SINGLE PUMP PACKAGE, 3.0 H.P., 208/3/60	S 3Y	
	Expansion Tank	P-2840	
	3.0 H.P., Single Pump Package	1D10153G16	
	3.0 H.P. Pump	P-296A	X
	Single Pump Housing	1D10118G8	
	Wrapper (One Half of Housing) 2 Supplied	F20-2350	
	Cover	F20-2360	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Single Pump Base	F20-2440	
	Heater & Fuse Kit	1C11288G8	
	E-52 Heater (3 Supplied)	E-0960	X
	15.0 Amp Fuse (3 Supplied)	E-2070	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X

GLYCOL PUMP PACKAGE FOR LIEBERT DRYCOOLERS (Continued)
CHALLENGER II/SYSTEM III/GLYCOL CHILLERS (Continued)

SECTION I - SINGLE PUMP PACKAGE (Continued)			
Find No	Description	Part Number	RSP
	COMPLETE SINGLE PUMP PACKAGE, 5.0 H.P., 460/3/60	S 5A	
	Expansion Tank	P-2840	
	5.0 H.P., Single Pump Package	1D10153G19	
	5.0 H.P. Pump	P02-001A	X
	Single Pump Housing	1D10118G4	
	Wrapper (One Half of Housing) 2 Supplied	F20-2350	
	Cover	F20-2360	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Single Pump Base	F20-2440	
	Heater & Fuse Kit	1C11288G14	
	E-51 Heater (3 Supplied)	E-0950	X
	15.0 Amp Fuse (3 Supplied)	E-2410	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X
	COMPLETE SINGLE PUMP PACKAGE, 5.0 H.P., 575/3/60	S 5B	
	Expansion Tank	P-2840	
	5.0 H.P., Single Pump Package	1D10153G20	
	5.0 H.P. Pump	P02-001B	X
	Single Pump Housing	1D10118G4	
	Wrapper (One Half of Housing) 2 Supplied	F20-2350	
	Cover	F20-2360	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Single Pump Base	F20-2440	
	Heater & Fuse Kit	1C11288G16	
	E-47 Heater (3 Supplied)	E-0930	X
	15.0 Amp Fuse (3 Supplied)	E-2410	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X
	COMPLETE SINGLE PUMP PACKAGE, 5.0 H.P., 208/3/60	S 5Y	
	Expansion Tank	P-2840	
	5.0 H.P., Single Pump Package	1D10153G19	
	5.0 H.P. Pump	P02-001A	X
	Single Pump Housing	1D10118G4	
	Wrapper (One Half of Housing) 2 Supplied	F20-2350	
	Cover	F20-2360	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Single Pump Base	F20-2440	
	Heater & Fuse Kit	1C11288G12	
	E-60 Heater (3 Supplied)	E-2670	X
	25.0 Amp Fuse (3 Supplied)	E-2080	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X

GLYCOL PUMP PACKAGE FOR LIEBERT DRYCOOLERS (Continued)
CHALLENGER II/SYSTEM III/GLYCOL CHILLERS (Continued)

SECTION II - DUAL PUMP PACKAGE			
Find No	Description	Part Number	RSP
	COMPLETE DUAL PUMP PACKAGE, .75 H.P., 208/1/60	D .75P	
	Expansion Tank	P-2840	
	Flow Switch	P-4620	X
	.75 H.P., Dual Pump Package	018-0714	
	.75 H.P. Pump (2 Supplied)	P13-0030	X
	Dual Pump Housing	1D10118G6	
	Wrapper (One Half of Housing) 2 Supplied	F20-2390	
	Cover	F20-2400	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Dual Pump Base	F20-2430	
	15.0 Amp Fuse (4 Supplied)	E-2070	X
	Instructions (For Fuse Installation)	1A11252P1	X
	COMPLETE DUAL PUMP PACKAGE, 1.0 H.P., 380/3/50	D 1M	
	Expansion Tank	P-2840	
	Flow Switch	P-4620	X
	1.0 H.P., Dual Pump Package	1D10153G23	
	1.0 H.P. Pump (2 Supplied)	P-280B	X
	Dual Pump Housing	1D10118G6	
	Wrapper (One Half of Housing) 2 Supplied	F20-2390	
	Cover	F20-2400	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Dual Pump Base	F20-2430	
	Heater & Fuse Kit	1C11290G13	
	E-32 Heater (6 Supplied)	E-0860	X
	15.0 Amp Fuse (6 Supplied)	E-2410	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X
	COMPLETE DUAL PUMP PACKAGE, 1.0 H.P., 200/3/50	D 1N	
	Expansion Tank	P-2840	
	Flow Switch	P-4620	X
	1.0 H.P., Dual Pump Package	1D10153G23	
	1.0 H.P. Pump (2 Supplied)	P-280B	X
	Dual Pump Housing	1D10118G6	
	Wrapper (One Half of Housing) 2 Supplied	F20-2390	
	Cover	F20-2400	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Dual Pump Base	F20-2430	
	Heater & Fuse Kit	1C11290G15	
	E-44 Heater (6 Supplied)	E-0910	X
	15.0 Amp Fuse (6 Supplied)	E-2070	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X

GLYCOL PUMP PACKAGE FOR LIEBERT DRYCOOLERS (Continued)
CHALLENGER II/SYSTEM III/GLYCOL CHILLERS (Continued)

SECTION II - DUAL PUMP PACKAGE (Continued)			
Find No	Description	Part Number	RSP
	COMPLETE DUAL PUMP PACKAGE, 1.5 H.P., 460/3/60	D 1.5A	
	Expansion Tank	P-2840	
	Flow Switch	P-4620	X
	1.5 H.P., Dual Pump Package	1D10153G26	
	1.5 H.P. Pump (2 Supplied)	P-281A	X
	Dual Pump Housing	1D10118G6	
	Wrapper (One Half of Housing) 2 Supplied	F20-2390	
	Cover	F20-2400	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Dual Pump Base	F20-2430	
	Heater & Fuse Kit	1C11290G3	
	E-34 Heater (6 Supplied)	E-2610	X
	15.0 Amp Fuse (6 Supplied)	E-2410	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X
	COMPLETE DUAL PUMP PACKAGE, 1.5 H.P., 575/3/60	D 1.5B	
	Expansion Tank	P-2840	
	Flow Switch	P-4620	X
	1.5 H.P., Dual Pump Package	1D10153G27	
	1.5 H.P. Pump (2 Supplied)	P-281B	X
	Dual Pump Housing	1D10118G6	
	Wrapper (One Half of Housing) 2 Supplied	F20-2390	
	Cover	F20-2400	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Dual Pump Base	F20-2430	
	Heater & Fuse Kit	1C11290G5	
	E-29 Heater (6 Supplied)	E-1840	X
	15.0 Amp Fuse (6 Supplied)	E-2410	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X
	COMPLETE DUAL PUMP PACKAGE, 1.5 H.P., 380/3/50	D 1.5M	
	Expansion Tank	P-2840	
	Flow Switch	P-4620	X
	1.5 H.P., Dual Pump Package	1D10153G25	
	1.5 H.P. Pump (2 Supplied)	P-280A	X
	Dual Pump Housing	1D10118G6	
	Wrapper (One Half of Housing) 2 Supplied	F20-2390	
	Cover	F20-2400	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Dual Pump Base	F20-2430	
	Heater & Fuse Kit	1C11290G24	
	E-37 Heater (6 Supplied)	E-0870	X
	15.0 Amp Fuse (6 Supplied)	E-2410	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X

GLYCOL PUMP PACKAGE FOR LIEBERT DRYCOOLERS (Continued)
CHALLENGER II/SYSTEM III/GLYCOL CHILLERS (Continued)

SECTION II - DUAL PUMP PACKAGE (Continued)			
Find No	Description	Part Number	RSP
	COMPLETE DUAL PUMP PACKAGE, 1.5 H.P., 200/3/50	D 1.5N	
	Expansion Tank	P-2840	
	Flow Switch	P-4620	X
	1.5 H.P., Dual Pump Package	1D10153G28	
	1.5 H.P. Pump (2 Supplied)	P-5070	X
	Dual Pump Housing	1D10118G6	
	Wrapper (One Half of Housing) 2 Supplied	F20-2390	
	Cover	F20-2400	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Dual Pump Base	F20-2430	
	Heater & Fuse Kit	1C11290G4	
	E-48 Heater (6 Supplied)	E-0940	X
	15.0 Amp Fuse (6 Supplied)	E-2070	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X
	COMPLETE DUAL PUMP PACKAGE, 1.5 H.P., 208/3/60	D 1.5Y	
	Expansion Tank	P-2840	
	Flow Switch	P-4620	X
	1.5 H.P., Dual Pump Package	1D10153G26	
	1.5 H.P. Pump (2 Supplied)	P-281A	X
	Dual Pump Housing	1D10118G6	
	Wrapper (One Half of Housing) 2 Supplied	F20-2390	
	Cover	F20-2400	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Dual Pump Base	F20-2430	
	Heater & Fuse Kit	1C11290G1	
	E-44 Heater (6 Supplied)	E-0910	X
	15.0 Amp Fuse (6 Supplied)	E-2070	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X
	COMPLETE DUAL PUMP PACKAGE, 2.0 H.P., 460/3/60	D 2A	
	Expansion Tank	P-2840	
	Flow Switch	P-4620	X
	2.0 H.P., Dual Pump Package	1D10153G30	
	2.0 H.P. Pump (2 Supplied)	P-381B	X
	Dual Pump Housing	1D10118G6	
	Wrapper (One Half of Housing) 2 Supplied	F20-2390	
	Cover	F20-2400	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Dual Pump Base	F20-2430	
	Heater & Fuse Kit	1C11290G2	
	E-38 Heater (6 Supplied)	E-0880	X
	15.0 Amp Fuse (6 Supplied)	E-2410	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X

GLYCOL PUMP PACKAGE FOR LIEBERT DRYCOOLERS (Continued)
CHALLENGER II/SYSTEM III/GLYCOL CHILLERS (Continued)

SECTION II - DUAL PUMP PACKAGE (Continued)			
Find No	Description	Part Number	RSP
	COMPLETE DUAL PUMP PACKAGE, 2.0 H.P., 575/3/60	D 2B	
	Expansion Tank	P-2840	
	Flow Switch	P-4620	X
	2.0 H.P., Dual Pump Package	1D10153G31	
	2.0 H.P. Pump (2 Supplied)	P-381C	X
	Dual Pump Housing	1D10118G6	
	Wrapper (One Half of Housing) 2 Supplied	F20-2390	
	Cover	F20-2400	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Dual Pump Base	F20-2430	
	Heater & Fuse Kit	1C11290G3	
	E-34 Heater (6 Supplied)	E-2610	X
	15.0 Amp Fuse (6 Supplied)	E-2410	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X
	COMPLETE DUAL PUMP PACKAGE, 2.0 H.P., 380/3/50	D 2M	
	Expansion Tank	P-2840	
	Flow Switch	P-4620	X
	2.0 H.P., Dual Pump Package	1D10153G29	
	2.0 H.P. Pump (2 Supplied)	P-282A	X
	Dual Pump Housing	1D10118G6	
	Wrapper (One Half of Housing) 2 Supplied	F20-2390	
	Cover	F20-2400	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Dual Pump Base	F20-2430	
	Heater & Fuse Kit	1C11290G7	
	E-41 Heater (6 Supplied)	E-2660	X
	15.0 Amp Fuse (6 Supplied)	E-2410	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X
	COMPLETE DUAL PUMP PACKAGE, 2.0 H.P., 200/3/50	D 2N	
	Expansion Tank	P-2840	
	Flow Switch	P-4620	X
	2.0 H.P., Dual Pump Package	1D10153G32	
	2.0 H.P. Pump (2 Supplied)	P-5080	X
	Dual Pump Housing	1D10118G6	
	Wrapper (One Half of Housing) 2 Supplied	F20-2390	
	Cover	F20-2400	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Dual Pump Base	F20-2430	
	Heater & Fuse Kit	1C11290G9	
	E-52 Heater (6 Supplied)	E-0960	X
	15.0 Amp Fuse (6 Supplied)	E-2070	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X

GLYCOL PUMP PACKAGE FOR LIEBERT DRYCOOLERS (Continued)
CHALLENGER II/SYSTEM III/GLYCOL CHILLERS (Continued)

SECTION II - DUAL PUMP PACKAGE (Continued)			
Find No	Description	Part Number	RSP
	COMPLETE DUAL PUMP PACKAGE, 2.0 H.P., 208/3/60	D 2Y	
	Expansion Tank	P-2840	
	Flow Switch	P-4620	X
	2.0 H.P., Dual Pump Package	1D10153G30	
	2.0 H.P. Pump (2 Supplied)	P-381B	X
	Dual Pump Housing	1D10118G6	
	Wrapper (One Half of Housing) 2 Supplied	F20-2390	
	Cover	F20-2400	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Dual Pump Base	F20-2430	
	Heater & Fuse Kit	1C11290G6	
	E-49 Heater (6 Supplied)	E-1810	X
	15.0 Amp Fuse (6 Supplied)	E-2070	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X
	COMPLETE DUAL PUMP PACKAGE, 3.0 H.P., 460/3/60	D 3A	
	Expansion Tank	P-2840	
	Flow Switch	P-4620	X
	3.0 H.P., Dual Pump Package	1D10153G34	
	3.0 H.P. Pump (2 Supplied)	P-296A	X
	Dual Pump Housing	1D10118G6	
	Wrapper (One Half of Housing) 2 Supplied	F20-2390	
	Cover	F20-2400	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Dual Pump Base	F20-2430	
	Heater & Fuse Kit	1C11290G7	
	E-41 Heater (6 Supplied)	E-2660	X
	15.0 Amp Fuse (6 Supplied)	E-2410	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X
	COMPLETE DUAL PUMP PACKAGE, 3.0 H.P., 575/3/60	D 3B	
	Expansion Tank	P-2840	
	Flow Switch	P-4620	X
	3.0 H.P., Dual Pump Package	1D10153G35	
	3.0 H.P. Pump (2 Supplied)	P-296B	X
	Dual Pump Housing	1D10118G6	
	Wrapper (One Half of Housing) 2 Supplied	F20-2390	
	Cover	F20-2400	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Dual Pump Base	F20-2430	
	Heater & Fuse Kit	1C11290G2	
	E-38 Heater (6 Supplied)	E-0880	X
	15.0 Amp Fuse (6 Supplied)	E-2410	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X

GLYCOL PUMP PACKAGE FOR LIEBERT DRYCOOLERS (Continued)
CHALLENGER II/SYSTEM III/GLYCOL CHILLERS (Continued)

SECTION II - DUAL PUMP PACKAGE (Continued)			
Find No	Description	Part Number	RSP
	COMPLETE DUAL PUMP PACKAGE, 3.0 H.P., 380/3/50	D 3M	
	Expansion Tank	P-2840	
	Flow Switch	P-4620	X
	3.0 H.P., Dual Pump Package	1D10153G33	
	3.0 H.P. Pump (2 Supplied)	P-285A	X
	Dual Pump Housing	1D10118G6	
	Wrapper (One Half of Housing) 2 Supplied	F20-2390	
	Cover	F20-2400	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Dual Pump Base	F20-2430	
	Heater & Fuse Kit	1C11290G10	
	E-44 Heater (6 Supplied)	E-0910	X
	15.0 Amp Fuse (6 Supplied)	E-2410	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X
	COMPLETE DUAL PUMP PACKAGE, 3.0 H.P., 200/3/50	D 3N	
	Expansion Tank	P-2840	
	Flow Switch	P-4620	X
	3.0 H.P., Dual Pump Package	1D10153G36	
	3.0 H.P. Pump (2 Supplied)	P-5090	X
	Dual Pump Housing	1D10118G6	
	Wrapper (One Half of Housing) 2 Supplied	F20-2390	
	Cover	F20-2400	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Dual Pump Base	F20-2430	
	Heater & Fuse Kit	1C11290G9	
	E-53 Heater (6 Supplied)	E-0970	X
	15.0 Amp Fuse (6 Supplied)	E-2070	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X
	COMPLETE DUAL PUMP PACKAGE, 3.0 H.P., 208/3/60	D 3Y	
	Expansion Tank	P-2840	
	Flow Switch	P-4620	X
	3.0 H.P., Dual Pump Package	1D10153G34	
	3.0 H.P. Pump (2 Supplied)	P-296A	X
	Dual Pump Housing	1D10118G6	
	Wrapper (One Half of Housing) 2 Supplied	F20-2390	
	Cover	F20-2400	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Dual Pump Base	F20-2430	
	Heater & Fuse Kit	1C11290G8	
	E-52 Heater (6 Supplied)	E-0960	X
	15.0 Amp Fuse (6 Supplied)	E-2070	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X

GLYCOL PUMP PACKAGE FOR LIEBERT DRYCOOLERS (Continued)
CHALLENGER II/SYSTEM III/GLYCOL CHILLERS (Continued)

SECTION II - DUAL PUMP PACKAGE (Continued)			
Find No	Description	Part Number	RSP
	COMPLETE DUAL PUMP PACKAGE, 5.0 H.P., 460/3/60	D 5A	
	Expansion Tank	P-2840	
	Flow Switch	P-4620	X
	5.0 H.P., Dual Pump Package	1D10153G37	
	5.0 H.P. Pump (2 Supplied)	P02-001A	X
	Dual Pump Housing	1D10118G2	
	Wrapper (One Half of Housing) 2 Supplied	F20-2390	
	Cover	F20-2400	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Dual Pump Base	F20-2430	
	Heater & Fuse Kit	1C11290G14	
	E-51 Heater (6 Supplied)	E-0950	X
	15.0 Amp Fuse (6 Supplied)	E-2410	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X
	COMPLETE DUAL PUMP PACKAGE, 5.0 H.P., 575/3/60	D 5B	
	Expansion Tank	P-2840	
	Flow Switch	P-4620	X
	5.0 H.P., Dual Pump Package	1D10153G38	
	5.0 H.P. Pump (2 Supplied)	P02-001B	X
	Dual Pump Housing	1D10118G2	
	Wrapper (One Half of Housing) 2 Supplied	F20-2390	
	Cover	F20-2400	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Dual Pump Base	F20-2430	
	Heater & Fuse Kit	1C11290G16	
	E-47 Heater (6 Supplied)	E-0930	X
	15.0 Amp Fuse (6 Supplied)	E-2410	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X
	COMPLETE DUAL PUMP PACKAGE, 5.0 H.P., 208/3/60	D 5Y	
	Expansion Tank	P-2840	
	Flow Switch	P-4620	X
	5.0 H.P., Dual Pump Package	1D10153G37	
	5.0 H.P. Pump (2 Supplied)	P02-001A	X
	Dual Pump Housing	1D10118G2	
	Wrapper (One Half of Housing) 2 Supplied	F20-2390	
	Cover	F20-2400	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Dual Pump Base	F20-2430	
	Heater & Fuse Kit	1C11290G7	
	E-60 Heater (6 Supplied)	E-2670	X
	25.0 Amp Fuse (6 Supplied)	E-2080	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X

GLYCOL PUMP PACKAGE FOR LIEBERT DRYCOOLERS (Continued)
GLYCOOL CHILLERS

SECTION I - SINGLE PUMP PACKAGE			
Find No	Description	Part Number	RSP
	COMPLETE PUMP PACKAGE, 1.5 H.P., 208/3/60	018-1625	
	3-WAY Valve	P-0310	X
	Compression Tank	P-4740	
	Relief Valve	P-4730	
	Modulating Motor	M-0020	X
	Linkage	M-0050	X
	Single Pump Package	S1-1/2YNT	
	1.5 H.P., Single Pump Package	1D10153G8	
	1.5 H.P. Pump	P-281A	X
	Single Pump Housing	1D10118G8	
	Wrapper (One Half of Housing) 2 Supplied	F20-2350	
	Cover	F20-2360	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Single Pump Base	F20-2440	
	Heater & Fuse Kit	1C11288G1	
	E-44 Heater (3 Supplied)	E-0910	
	15.0 Amp Fuse (3 Supplied)	E-2070	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X
	COMPLETE PUMP PACKAGE, 1.5 H.P., 460/3/60	018-1626	
	3-WAY Valve	P-0310	X
	Compression Tank	P-4740	
	Relief Valve	P-4730	
	Modulating Motor	M-0020	X
	Linkage	M-0050	X
	Single Pump Package	S1-1/2ANT	
	1.5 H.P., Single Pump Package	1D10153G8	
	1.5 H.P. Pump	P-281A	X
	Single Pump Housing	1D10118G8	
	Wrapper (One Half of Housing) 2 Supplied	F20-2350	
	Cover	F20-2360	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Single Pump Base	F20-2440	
	Heater & Fuse Kit	1C11288G3	
	E-34 Heater (3 Supplied)	E-2610	
	15.0 Amp Fuse (3 Supplied)	E-2410	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X

GLYCOL PUMP PACKAGE FOR LIEBERT DRYCOOLERS (Continued)
GLYCOOL CHILLERS (Continued)

SECTION I - SINGLE PUMP PACKAGE (Continued)			
Find No	Description	Part Number	RSP
	COMPLETE PUMP PACKAGE, 1.5 H.P., 575/3/60	018-1627	
	3-WAY Valve	P-0310	X
	Compression Tank	P-4740	
	Relief Valve	P-4730	
	Modulating Motor	M-0020	X
	Linkage	M-0050	X
	Single Pump Package	S1-1/2BNT	
	1.5 H.P., Single Pump Package	1D10153G9	
	1.5 H.P. Pump	P-281B	X
	Single Pump Housing	1D10118G8	
	Wrapper (One Half of Housing) 2 Supplied	F20-2350	
	Cover	F20-2360	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Single Pump Base	F20-2440	
	Heater & Fuse Kit	1C11288G5	
	E-29 Heater (3 Supplied)	E-1840	
	15.0 Amp Fuse (3 Supplied)	E-2410	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X
	COMPLETE PUMP PACKAGE, 2.0 H.P., 208/3/60	018-1628	
	3-WAY Valve	P-0310	X
	Compression Tank	P-4740	
	Relief Valve	P-4730	
	Modulating Motor	M-0020	X
	Linkage	M-0050	X
	Single Pump Package	S2YNT	
	2.0 H.P., Single Pump Package	1D10153G12	
	2.0 H.P. Pump	P-381B	X
	Single Pump Housing	1D10118G8	
	Wrapper (One Half of Housing) 2 Supplied	F20-2350	
	Cover	F20-2360	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Single Pump Base	F20-2440	
	Heater & Fuse Kit	1C11288G6	
	E-49 Heater (3 Supplied)	E-1810	
	15.0 Amp Fuse (3 Supplied)	E-2070	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X

GLYCOL PUMP PACKAGE FOR LIEBERT DRYCOOLERS (Continued)
GLYCOOL CHILLERS (Continued)

SECTION I - SINGLE PUMP PACKAGE (Continued)			
Find No	Description	Part Number	RSP
	COMPLETE PUMP PACKAGE, 2.0 H.P., 460/3/60	018-1629	
	3-WAY Valve	P-0310	X
	Compression Tank	P-4740	
	Relief Valve	P-4730	
	Modulating Motor	M-0020	X
	Linkage	M-0050	X
	2.0 H.P., Single Pump Package	1D10153G12	
	2.0 H.P. Pump	P-381B	X
	Single Pump Housing	1D10118G8	
	Wrapper (One Half of Housing) 2 Supplied	F20-2350	
	Cover	F20-2360	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Single Pump Base	F20-2440	
	Heater & Fuse Kit	1C11288G2	
	E-38 Heater (3 Supplied)	E-0880	
	15.0 Amp Fuse (3 Supplied)	E-2410	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X
	COMPLETE PUMP PACKAGE, 2.0 H.P., 575/3/60	018-1630	
	3-WAY Valve	P-0310	X
	Compression Tank	P-4740	
	Relief Valve	P-4730	
	Modulating Motor	M-0020	X
	Linkage	M-0050	X
	Single Pump Package	S2BNT	
	2.0 H.P., Single Pump Package	1D10153G13	
	2.0 H.P. Pump	P-381C	X
	Single Pump Housing	1D10118G8	
	Wrapper (One Half of Housing) 2 Supplied	F20-2350	
	Cover	F20-2360	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Single Pump Base	F20-2440	
	Heater & Fuse Kit	1C11288G3	
	E-34 Heater (3 Supplied)	E-2610	
	15.0 Amp Fuse (3 Supplied)	E-2410	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X

GLYCOL PUMP PACKAGE FOR LIEBERT DRYCOOLERS (Continued)
GLYCOOL CHILLERS (Continued)

SECTION I - SINGLE PUMP PACKAGE (Continued)			
Find No	Description	Part Number	RSP
	COMPLETE PUMP PACKAGE, 2.0 H.P., 208/3/60	018-1631	
	3-WAY Valve	P-3600	X
	Compression Tank	P-4740	
	Relief Valve	P-4730	
	Modulating Motor	M-0020	X
	Linkage	M-0050	X
	Single Pump Package	S2YNT	
	2.0 H.P., Single Pump Package	1D10153G12	
	2.0 H.P. Pump	P-381B	X
	Single Pump Housing	1D10118G8	
	Wrapper (One Half of Housing) 2 Supplied	F20-2350	
	Cover	F20-2360	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Single Pump Base	F20-2440	
	Heater & Fuse Kit	1C11288G6	
	E-49 Heater (3 Supplied)	E-1810	
	15.0 Amp Fuse (3 Supplied)	E-2070	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X
	COMPLETE PUMP PACKAGE, 2.0 H.P., 460/3/60	018-1632	
	3-WAY Valve	P-3600	X
	Compression Tank	P-4740	
	Relief Valve	P-4730	
	Modulating Motor	M-0020	X
	Linkage	M-0050	X
	2.0 H.P., Single Pump Package	1D10153G12	
	2.0 H.P. Pump	P-381B	X
	Single Pump Housing	1D10118G8	
	Wrapper (One Half of Housing) 2 Supplied	F20-2350	
	Cover	F20-2360	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Single Pump Base	F20-2440	
	Heater & Fuse Kit	1C11288G2	
	E-38 Heater (3 Supplied)	E-0880	
	15.0 Amp Fuse (3 Supplied)	E-2410	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X

GLYCOL PUMP PACKAGE FOR LIEBERT DRYCOOLERS (Continued)
GLYCOL CHILLERS (Continued)

SECTION I - SINGLE PUMP PACKAGE (Continued)			
Find No	Description	Part Number	RSP
	COMPLETE PUMP PACKAGE, 2.0 H.P., 575/3/60	018-1633	
	3-WAY Valve	P-3600	X
	Compression Tank	P-4740	
	Relief Valve	P-4730	
	Modulating Motor	M-0020	X
	Linkage	M-0050	X
	Single Pump Package	S2BNT	
	2.0 H.P., Single Pump Package	1D10153G13	
	2.0 H.P. Pump	P-381C	X
	Single Pump Housing	1D10118G8	
	Wrapper (One Half of Housing) 2 Supplied	F20-2350	
	Cover	F20-2360	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Single Pump Base	F20-2440	
	Heater & Fuse Kit	1C11288G3	
	E-34 Heater (3 Supplied)	E-2610	
	15.0 Amp Fuse (3 Supplied)	E-2410	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X
	COMPLETE PUMP PACKAGE, 1.0 H.P., 200/3/50	018-1634	
	3-WAY Valve	P-0310	X
	Compression Tank	P-4740	
	Relief Valve	P-4730	
	Modulating Motor	M-0020	X
	Linkage	M-0050	X
	Single Pump Package	S1NNT	
	1.0 H.P., Single Pump Package	1D10153G5	
	1.0 H.P. Pump	P-280B	X
	Single Pump Housing	1D10118G8	
	Wrapper (One Half of Housing) 2 Supplied	F20-2350	
	Cover	F20-2360	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Single Pump Base	F20-2440	
	Heater & Fuse Kit	1C11288G15	
	E-44 Heater (3 Supplied)	E-0910	X
	15.0 Amp Fuse (3 Supplied)	E-2070	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X

GLYCOL PUMP PACKAGE FOR LIEBERT DRYCOOLERS (Continued)
GLYCOOL CHILLERS (Continued)

SECTION I - SINGLE PUMP PACKAGE (Continued)			
Find No	Description	Part Number	RSP
	COMPLETE PUMP PACKAGE, 1.0 H.P., 400/3/50	018-1635	
	3-WAY Valve	P-0310	X
	Compression Tank	P-4740	
	Relief Valve	P-4730	
	Modulating Motor	M-0020	X
	Linkage	M-0050	X
	Single Pump Package	S1MNT	
	1.0 H.P., Single Pump Package	1D10153G5	
	1.0 H.P. Pump	P-280B	X
	Single Pump Housing	1D10118G8	
	Wrapper (One Half of Housing) 2 Supplied	F20-2350	
	Cover	F20-2360	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Single Pump Base	F20-2440	
	Heater & Fuse Kit	1C11288G13	
	E-32 Heater (3 Supplied)	E-0860	X
	15.0 Amp Fuse (3 Supplied)	E-2410	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X
	COMPLETE PUMP PACKAGE, 1.5 H.P., 200/3/50	018-1636	
	3-WAY Valve	P-0310	X
	Compression Tank	P-4740	
	Relief Valve	P-4730	
	Modulating Motor	M-0020	X
	Linkage	M-0050	X
	Single Pump Package	S1-1/2NNT	
	1.5 H.P., Single Pump Package	1D10153G10	
	1.5 H.P. Pump	P-5070	X
	Single Pump Housing	1D10118G8	
	Wrapper (One Half of Housing) 2 Supplied	F20-2350	
	Cover	F20-2360	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Single Pump Base	F20-2440	
	Heater & Fuse Kit	1C11288G4	
	E-48 Heater (3 Supplied)	E-0940	X
	15.0 Amp Fuse (3 Supplied)	E-2070	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X

GLYCOL PUMP PACKAGE FOR LIEBERT DRYCOOLERS (Continued)
GLYCOL CHILLERS (Continued)

SECTION I - SINGLE PUMP PACKAGE (Continued)			
Find No	Description	Part Number	RSP
	COMPLETE PUMP PACKAGE, 1.5 H.P., 380/3/50	018-1637	
	3-WAY Valve	P-0310	X
	Compression Tank	P-4740	
	Relief Valve	P-4730	
	Modulating Motor	M-0020	X
	Linkage	M-0050	X
	Single Pump Package	S1-1/2MNT	
	1.5 H.P., Single Pump Package	1D10153G7	
	1.5 H.P. Pump	P-280A	X
	Single Pump Housing	1D10118G8	
	Wrapper (One Half of Housing) 2 Supplied	F20-2350	
	Cover	F20-2360	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Single Pump Base	F20-2440	
	Heater & Fuse Kit	1C11288G24	
	E-37 Heater (3 Supplied)	E-0870	X
	15.0 Amp Fuse (3 Supplied)	E-2410	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X
	COMPLETE PUMP PACKAGE, 2.0 H.P., 200/3/50	018-1638	
	3-WAY Valve	P-3600	X
	Compression Tank	P-4740	
	Relief Valve	P-4730	
	Modulating Motor	M-0020	X
	Linkage	M-0050	X
	Single Pump Package	S2NNT	
	2.0 H.P., Single Pump Package	1D10153G14	
	2.0 H.P. Pump	P-5080	X
	Single Pump Housing	1D10118G8	
	Wrapper (One Half of Housing) 2 Supplied	F20-2350	
	Cover	F20-2360	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Single Pump Base	F20-2440	
	Heater & Fuse Kit	1C11288G9	
	E-52 Heater (3 Supplied)	E-0960	X
	15.0 Amp Fuse (3 Supplied)	E-2070	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X

GLYCOL PUMP PACKAGE FOR LIEBERT DRYCOOLERS (Continued)
GLYCOOL CHILLERS (Continued)

SECTION I - SINGLE PUMP PACKAGE (Continued)			
Find No	Description	Part Number	FSP
	COMPLETE PUMP PACKAGE, 2.0 H.P., 380/3/50	018-1639	
	3-WAY Valve	P-3600	X
	Compression Tank	P-4740	
	Relief Valve	P-4730	
	Modulating Motor	M-0020	X
	Linkage	M-0050	X
	Single Pump Package	S2MNT	
	2.0 H.P., Single Pump Package	1D10153G11	
	2.0 H.P. Pump	P-282A	X
	Single Pump Housing	1D10118G8	
	Wrapper (One Half of Housing) 2 Supplied	F20-2350	
	Cover	F20-2360	
	Pump Package Mounting Angle (2 Supplied)	F20-2370	
	Single Pump Base	F20-2440	
	Heater & Fuse Kit	1C11288G7	
	E-41 Heater (3 Supplied)	E-2660	X
	15.0 Amp Fuse (3 Supplied)	E-2410	X
	Instructions (For Heater & Fuse Kit)	1A11252P1	X

APPENDIX G (Continued)

PUMP PACKAGES FOR LIEBERT DRYCOOLERS SELECTIONS (Continued)

CHILLER SERIES 3000

GLYCOOL MODELS

MODEL NUMBER	HERTZ	VOLTAGE	STANDARD H.P.	OPTIONAL H.P.	PUMP PACKAGE
AS-53G	50	200	1.0		018-1634
CS-27G	50	230	1.0		018-1634
CD-54G**	50	380	1.0		018-1635
AS-63G	60	208	1.5		018-1625
CS-32G	60	208		2.0	018-1628
CD-64G**	60	460	1.5		018-1626
	60	460		2.0	018-1629
	60	575	1.5		018-1627
	60	575		2.0	018-1630
AS-89G	50	200	1.5		018-1636
CS-45G	50	230	1.5		018-1636
CD-90G**	50	380	1.5		018-1637
AS-103G	60	208	1.5		018-1625
CS-52G	60	208		2.0	018-1628
CD-104G**	60	460	1.5		018-1626
	60	460		2.0	018-1629
	60	575	1.5		018-1627
	60	575		2.0	018-1630
AS-167G	50	200	2.0		018-1638
CS-84G	50	230	2.0		018-1638
CD-168G**	50	380	2.0		018-1639
AS-169G	60	208	2.0		018-1631
CS-85G	60	460	2.0		018-1632
CD-170G**	60	575	2.0		018-1633
AS-203G	60	208	2.0		018-1631
CS-102G	60	460	2.0		018-1632
CD-204G**	60	575	2.0		018-1633
AS-211G	50	200	2.0		018-1638
CS-106G	50	230	2.0		018-1638
CD-212G**	50	380	2.0		018-1639
AS-251G	60	208	2.0		018-1631
CS-126G	60	460	2.0		018-1632
CD-252G**	60	575	2.0		018-1633

** MODELS WITH A "CD" PREFIX REQUIRE TWO (2) COMPLETE PUMP PACKAGES.

APPENDIX G

PUMP PACKAGES FOR LIEBERT DRYCOOLERS SELECTIONS CHALLENGER II/SYSTEM III/CHILLER SERIES 3000 GLYCOL MODELS

MODEL NUMBER	HERTZ	VOLTAGE	HORSEPOWER	PUMP PACKAGE
CF/CU 41G	50	200	.75	S 3/4W
CF/CU 41G	60	208	.75	S 3/4P*
CF/CU 60G	50	200	.75	S 3/4W
CF/CU 60G	60	208	.75	S 3/4P*
FH/UH 72G	50	200	1.5	* 1.5N
FH/UH 72G	50	380	1.5	* 1.5M
FH/UH 72G	60	208	1.5	* 1.5Y
FH/UH 72G	60	460	1.5	* 1.5A
FH/UH 72G	60	575	1.5	* 1.5B
FH/UH 111G	50	200	1.5	* 1.5N
FH/UH 111G	50	380	1.5	* 1.5M
FH/UH 110G	60	208	1.5	* 1.5Y
FH/UH 110G	60	460	1.5	* 1.5A
FH/UH 110G	60	575	1.5	* 1.5B
FH/UH 116G	60	208	1.5	* 1.5Y
FH/UH 116G	60	460	1.5	* 1.5A
FH/UH 116G	60	575	1.5	* 1.5B
FH/UH 121G	50	200	1.5	* 1.5N
FH/UH 121G	50	380	1.5	* 1.5M
FH/UH 192G	50	200	2.0	* 2.0N
FH/UH 192G	50	380	2.0	* 2.0M
FH/UH 192G	60	208	2.0	* 2.0Y
FH/UH 192G	60	460	2.0	* 2.0A
FH/UH 192G	60	575	2.0	* 2.0B
FH/UH 240G	50	200	3.0	* 3.0N
FH/UH 240G	50	380	3.0	* 3.0M
FH/UH 240G	60	208	3.0	* 3.0Y
FH/UH 240G	60	460	3.0	* 3.0A
FH/UH 240G	60	575	3.0	* 3.0B
FH/UH 265G	50	200	3.0	* 3.0N
FH/UH 265G	50	380	3.0	* 3.0M
FH/UH 265G	60	208	3.0	* 3.0Y
FH/UH 265G	60	460	3.0	* 3.0A
FH/UH 265G	60	575	3.0	* 3.0B
AS-53G	50	200	1.0	* 1.0N
CS-27G	50	230	1.0	* 1.0M
CD-54G**				
AS-89G				
CS-45G				
CD-90G**				
ALL OTHER	50	200	1.5	* 1.5N
CHILLERS**	50	380	1.5	* 1.5M
	60	208	1.5	* 1.5Y
	60	460	1.5	* 1.5A
	60	575	1.5	* 1.5B

* DUAL .75 H.P. PUMP PACKAGES HAVE A MODEL NUMBER OF D .75P

** MODELS WITH A "CD" PREFIX REQUIRE TWO (2) COMPLETE PUMP PACKAGES.

APPENDIX G

PUMP PACKAGES FOR LIEBERT DRYCOOLERS SELECTIONS SYSTEM III GLYCOOL MODELS

MODEL NUMBER	HERTZ	VOLTAGE	HORSEPOWER	PUMP PACKAGE
FE/UE 72G	50	200	1.5	* 1.5N
FE/UE 72G	50	380	1.5	* 1.5M
FE/UE 72G	60	208	1.5	* 1.5Y
FE/UE 72G	60	460	1.5	* 1.5A
FE/UE 72G	60	575	1.5	* 1.5B
FE/UE 111G	50	200	1.5	* 1.5N
FE/UE 111G	50	380	1.5	* 1.5M
FE/UE 110G	60	208	1.5	* 1.5Y
FE/UE 110G	60	460	1.5	* 1.5A
FE/UE 110G	60	575	1.5	* 1.5B
FE/UE 116G	60	208	2.0	* 2.0Y
FE/UE 116G	60	460	2.0	* 2.0A
FE/UE 116G	60	575	2.0	* 2.0B
FE/UE 121G	50	200	1.5	* 1.5N
FE/UE 121G	50	380	1.5	* 1.5M
FE/UE 192G	50	200	2.0	* 2.0N
FE/UE 192G	50	380	2.0	* 2.0M
FE/UE 192G	60	208	3.0	* 3.0Y
FE/UE 192G	60	460	3.0	* 3.0A
FE/UE 192G	60	575	3.0	* 3.0B
FE/UE 240G	50	200	3.0	* 3.0N
FE/UE 240G	50	380	3.0	* 3.0M
FE/UE 240G	60	208	3.0	* 3.0Y
FE/UE 240G	60	460	3.0	* 3.0A
FE/UE 240G	60	575	3.0	* 3.0B