

	CENTRIFUGAL LIQUID CHILLER	
REPLACEMENT PARTS	Supersedes: 160.84-RP2 (817)	Form 160.84-RP2 (622)

YMC² MOD B WITH M6 COMPRESSOR **MAGNETIC BEARING CENTRIFUGAL LIQUID CHILLERS**



LD17500



GB
COMPLIANT



Issue Date:
June 10, 2022



IMPORTANT!

READ BEFORE PROCEEDING!

GENERAL SAFETY GUIDELINES

This equipment is a relatively complicated apparatus. During rigging, installation, operation, maintenance, or service, individuals may be exposed to certain components or conditions including, but not limited to: heavy objects, refrigerants, materials under pressure, rotating components, and both high and low voltage. Each of these items has the potential, if misused or handled improperly, to cause bodily injury or death. It is the obligation and responsibility of rigging, installation, and operating/service personnel to identify and recognize these inherent hazards, protect themselves, and proceed safely in completing their tasks. Failure to comply with any of these requirements could result in serious damage to the equipment and the property in

which it is situated, as well as severe personal injury or death to themselves and people at the site.

This document is intended for use by owner-authorized rigging, installation, and operating/service personnel. It is expected that these individuals possess independent training that will enable them to perform their assigned tasks properly and safely. It is essential that, prior to performing any task on this equipment, this individual shall have read and understood the on-product labels, this document and any referenced materials. This individual shall also be familiar with and comply with all applicable industry and governmental standards and regulations pertaining to the task in question.

SAFETY SYMBOLS

The following symbols are used in this document to alert the reader to specific situations:



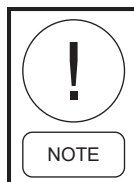
Indicates a possible hazardous situation which will result in death or serious injury if proper care is not taken.



Identifies a hazard which could lead to damage to the machine, damage to other equipment and/or environmental pollution if proper care is not taken or instructions are not followed.



Indicates a potentially hazardous situation which will result in possible injuries or damage to equipment if proper care is not taken.



Highlights additional information useful to the technician in completing the work being performed properly.



External wiring, unless specified as an optional connection in the manufacturer's product line, is not to be connected inside the control cabinet. Devices such as relays, switches, transducers and controls and any external wiring must not be installed inside the micro panel. All wiring must be in accordance with Johnson Controls' published specifications and must be performed only by a qualified electrician. Johnson Controls will NOT be responsible for damage/problems resulting from improper connections to the controls or application of improper control signals. Failure to follow this warning will void the manufacturer's warranty and cause serious damage to property or personal injury.

CHANGEABILITY OF THIS DOCUMENT

In complying with Johnson Controls' policy for continuous product improvement, the information contained in this document is subject to change without notice. Johnson Controls makes no commitment to update or provide current information automatically to the manual or product owner. Updated manuals, if applicable, can be obtained by contacting the nearest Johnson Controls Service office or accessing the Johnson Controls Knowledge Exchange website at <https://docs.johnsoncontrols.com/chillers/>.

It is the responsibility of rigging, lifting, and operating/service personnel to verify the applicability of these documents to the equipment. If there is any question regarding the applicability of these documents, rigging, lifting, and operating/service personnel should verify whether the equipment has been modified and if current literature is available from the owner of the equipment prior to performing any work on the chiller.

REVISION NOTES

Revisions made to this document are indicated in the following table. These revisions are to technical information, and any other changes in spelling, grammar, or formatting are not included.

AFFECTED PAGES	DESCRIPTION
31	Added part number 022-12411-000 for steel valve where brass valve part number 022-10073-000 is also listed
31	Added part number 022-12412-000 for steel valve where brass valve part number 022-10074-000 is also listed
55	Removed reference to part number 011-00253-000

ASSOCIATED LITERATURE

Manual Description	Form Number
YMC ² Installation	160.84-N1
YMC ² Field Connections	160.84-PW1
YMC ² Unit Wiring and Field Control Modifications	160.84-PW2
YMC ² Unit Operations and Maintenance Manual	160.84-O1
YMC ² OptiView™ Control Center Operation Manual	160.84-O2
YMC ² Variable Speed Drive Renewal Parts	160.84-RP3

SYSTEM NOMENCLATURE

Y M C 2 - S 0756 A B

YORK _____ Mod Level
Magnetic Bearing _____ A = Refrigerant R-134a
Centrifugal Chiller _____ B = Refrigerant R-513a
S = Single Stage _____ Capacity in KW
T = Two Stage _____

COMPRESSOR NOMENCLATURE

M2 B - 197 F A C D

Motor _____ Down Discharge
Motor Design Level _____ Gas Path Revision Level
Impeller Tip Diameter (mm) _____ Impeller Design Revision Level
Rotation _____
F = Forward
R = Reverse

VESSEL NOMENCLATURE

E A 25 14 271 B R 1 1 F C R

Vessel _____ Inlet from Front View
E = Evaporator _____ R = Right
C = Condenser _____ L = Left
Heat Exchanger Mod Level _____ Waterbox Type
Nominal Inside Diameter (Inches) _____ C = Compact
Nominal Length (Feet) _____ M = Marine
Marketing Tube Number _____ Water Connection Type
Tube Code _____ F = Flanges
B = 3/4" Code 1 _____ G = Grooved Standard
C = 3/4" Code 2 _____ A = Victaulic AGS
D = 3/4" Code 3 _____ Number of Passes
E = 3/4" Code 4 _____ Water Side Pressure Code
2 = 1" Code 1 _____ 1 = 150 psi
3 = 1" Code 2 _____ 3 = 300 psi
4 = 1" Code 3 _____
5 = 1" Code 4 _____
Vessel Refrigerant Pressure Code _____
R = Code 180
S = Code 235
T = Code 300
U = Code 350
V = Code 400

VARIABLE SPEED DRIVE NOMENCLATURE

HYP 0774 X H C 15 D - 40 A

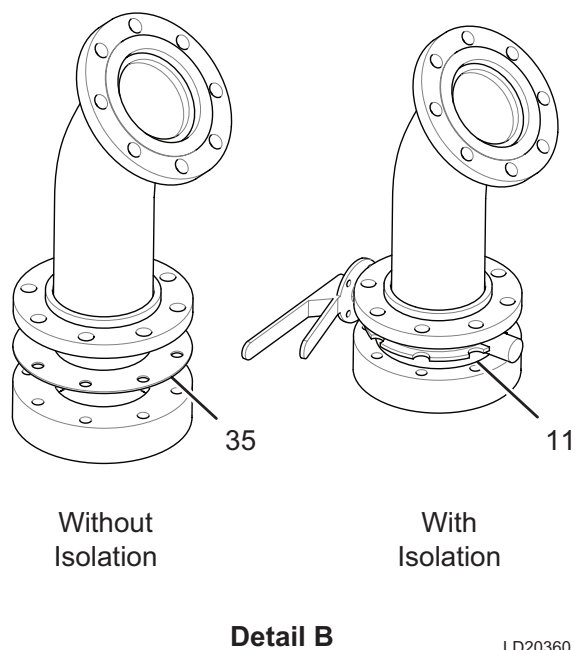
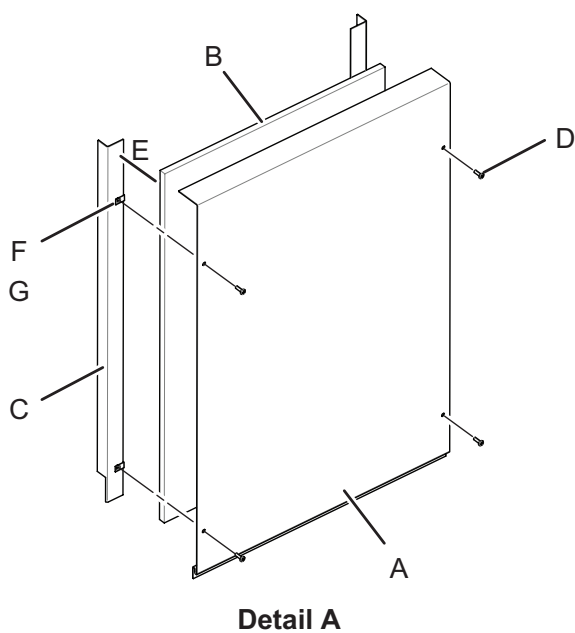
Hyp _____ Mod Level
Amps _____ 40 = 380V 60Hz
0490, 0612, 0774, 1278 _____ 50 = 400V 50Hz
X = Factory Mount _____ 46 = 460V 60Hz
R = Retrofit Model _____ 68 = 415V 50Hz
H = YMC² Chiller _____ D = Disconnect Switch
C = Condenser Cooled _____ B = Circuit Breaker
E = Evaporator Cooled _____ Liquid DWP
15 = 150 psi
30 = 300 psi

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TABLE 1 - UNIT ASSEMBLY

ITEM	DESCRIPTION	PART NUMBER	SAP	QUANTITY	FIGURE
10	HCS M20 X 2.5 X 70Mm Lg.	021-33184-070	731064	14	2
11	Valve Butterfly Size 8 (With Isolation Valve)	022-10641-008	116119	1	1, 2
13	HCS5 0.750-10 X 2.000 Gr 5 Zn	021-32012-016	588676	8	2
	HCS5 0.750-10 X 4.500 Gr 5 Zn (With Isolation Valve)	021-32012-036	686064	8	
16	Flange Rd Rf 150# S/O 8.00"	023-02366-000	146819	1	2
17	Gasket, Round Compr. Suction &	028-16544-103	742264	1	2
19	Flange So Rf Nps=8 Cl 300 Steel	023-02365-000	146559	1	2
22	Shield, Discharge Sound	392-40124-000	5184663	1	2
A	Shield, Discharge Sound	092-40123-000	5184627	1	1
B	Foam, Noise Reduction	010-09584-000	5184623	1	1
C	Angle Shield Mounting	092-40135-000	5184631	2	1
D	Screw Mach Pan Hd Recd 1	021-01873-000	166379	4	1
E	Tape, 3M Vhb 5952,	013-03423-000	729118	4.5	1
F	U-Nut, 1/4-20 Thread	021-33165-000	731056	4	1
G	Wear Washer .609 Od X .296 Id X .020	021-33166-000	731057	4	1
23	Label Location	392-40138-000	5184664	1	2
34	Gasket, Round Compr. Discharge	028-16544-203	742267	1	2
35	Gasket, Round Ansi 8.00-150# (Without Isolation Valve)	028-15075-013	741977	1	1



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FIGURE 1 - YMC UNIT COMPONENTS

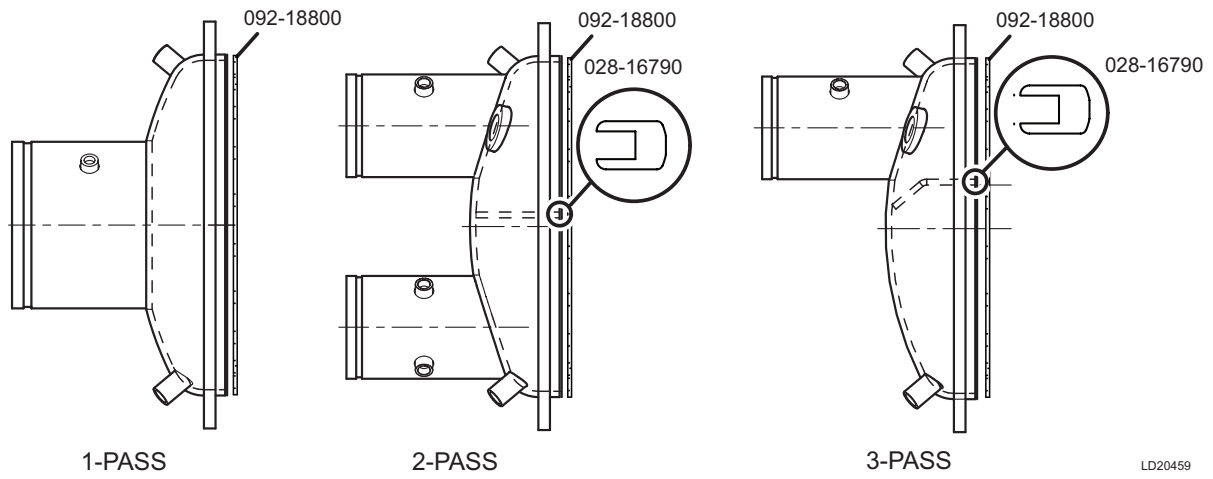
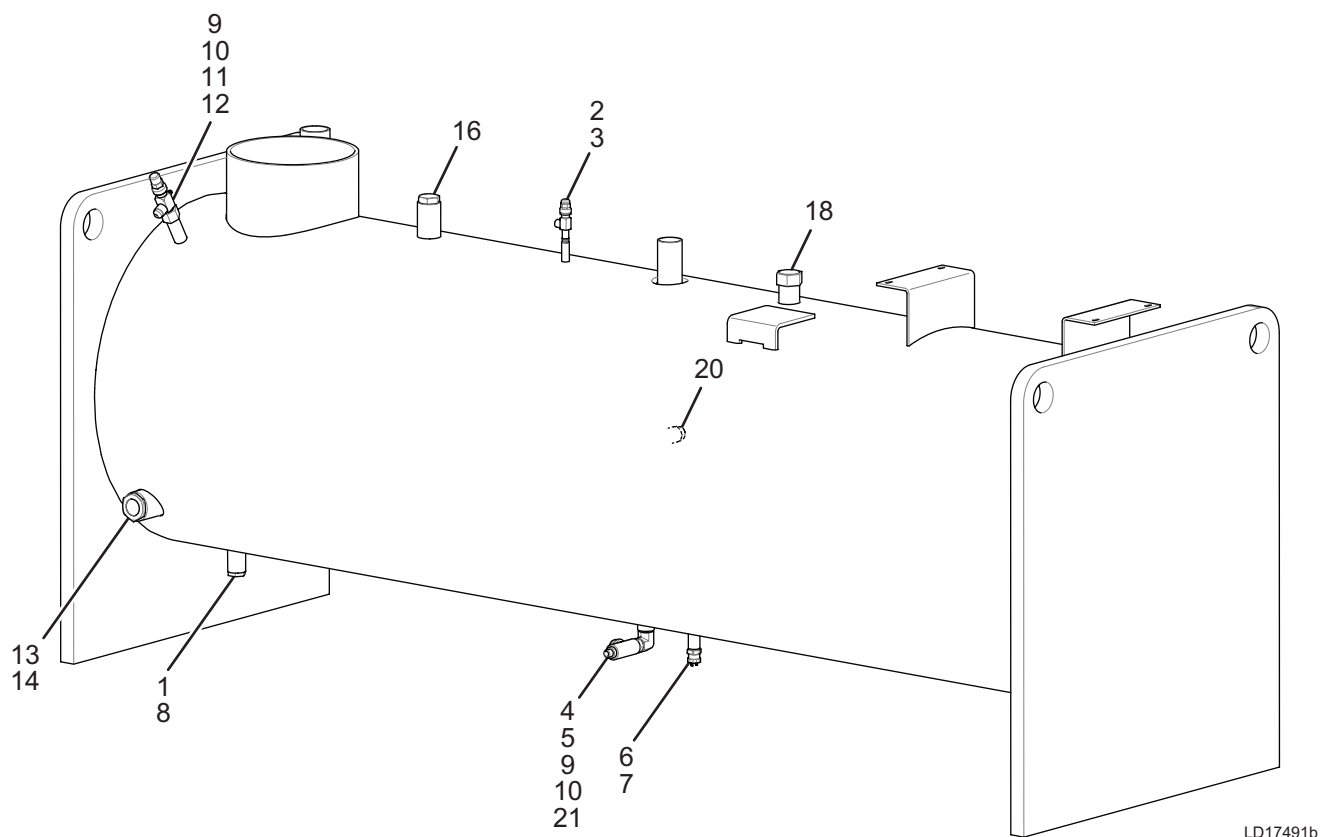


FIGURE 2 - YMC UNIT COMPONENTS

TABLE 2 - EVAPORATOR CLOSURES

ITEM	DESCRIPTION	PART NUMBER	SAP	QUANTITY	FIGURE
1	Plug Zn-Stl 1-5/16 UNF Hex	023-18282-000	146271	1	3
2	O-Ring Neo1 00.351Id .072Thk M	028-12961-001	588817	1	3
3	Valve Stop Ang Vertical	022-09577-000	617078	1	3
4	O-Ring Neo1 00.924Id .116Thk M	028-12961-006	588821	2	3
5	Valve Ball 1-1/16 - 12 Un-2A	022-09757-000	62507	1	3
6	O-Ring Neo1 00.644Id .087Thk M	028-12961-004	588819	1	3
7	Sensor, Temperature 3000 Ohms	025-41904-000	618239	1	3
8	O-Ring Neo1 01.171Id .116Thk M	028-12961-008	588822	1	3
9	Cap Flare 3/4 Od Tube	023-00984-000	617242	2	3
10	Gasket Fla 3/4 Od Tube:	028-09211-000	618602	2	3
11	Gasket, Seal 1 Od X 7/8 Id X	028-04836-000	62960	1	3
12	Valve Stop Ang Vertical	022-09573-000	617077	1	3
13	O-Ring Neo1 02.090Id .118Thk M	028-12961-036	618660	1	3
14	Plug Sight 2-1/4 -12 Un-2A	023-17197-000	146345	1	3
16	O-Ring Neo1 01.720Id .118Thk M	028-12961-019	618656	1	3
18	O-Ring Neo1 01.475Id .118Thk M	028-12961-017	618653	1	3
20	O-Ring Neo1 00.468Id .078Thk M	028-12961-003	588818	1	3
21	Elbow 3/4 Od. Tube 90 Deg Male	023-25543-000	829123	1	3

NOTE: Items with an * are NOT represented.



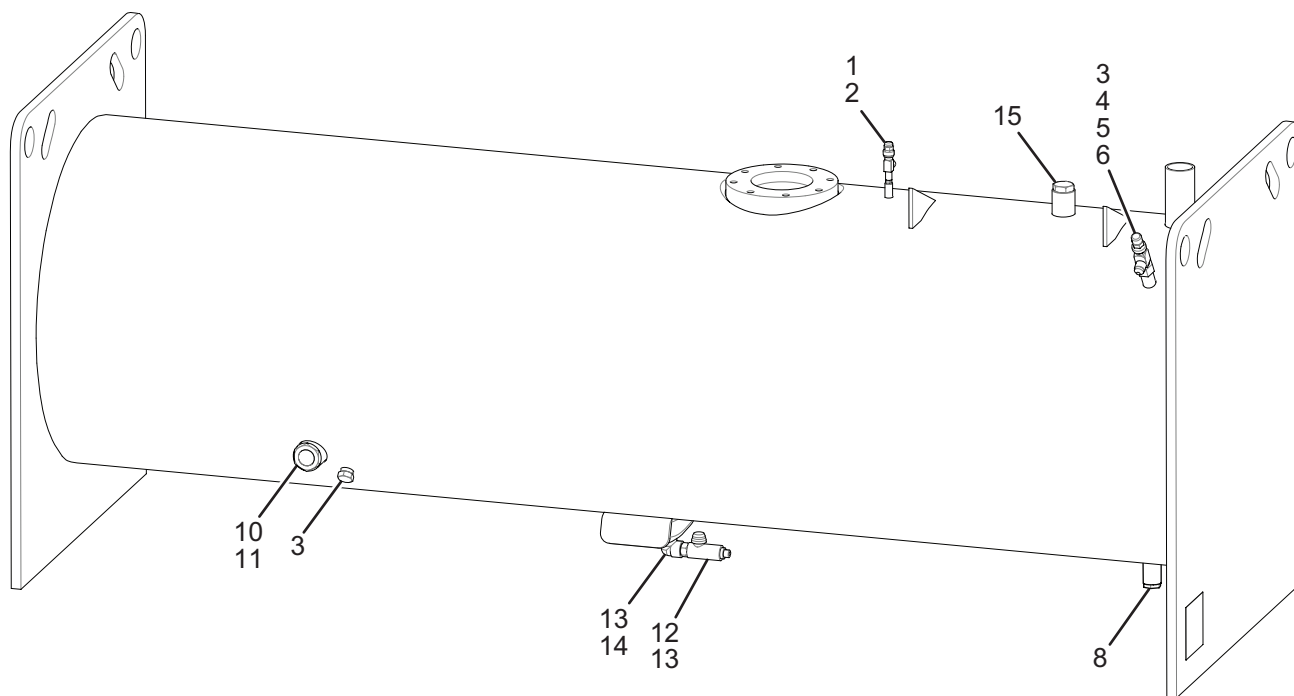
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FIGURE 3 - EVAPORATOR CLOSURES

TABLE 3 - CONDENSER CLOSURES

ITEM	DESCRIPTION	PART NUMBER	SAP	QUANTITY	FIGURE
1	O-Ring Neo1 00.351Id .072Thk M	028-12961-001	588817	1	4
2	Valve Stop Ang Vertical	022-09577-000	617078	1	4
3	Gasket, Seal 1 Od X 7/8 Id X	028-04836-000	62960	2	4
4	Valve Stop Ang Vertical	022-09573-000	617077	1	4
5	Cap Flare 3/4 Od Tube	023-00984-000	617242	1	4
6	Gasket Fla 3/4 Od Tube:	028-09211-000	618602	1	4
8	O-Ring Neo1 01.171Id .116Thk M	028-12961-008	588822	2	4
10	O-Ring Neo1 02.090Id .118Thk M	028-12961-036	618660	1	4
11	Plug Sight 2-1/4 -12 Un-2A	023-17197-000	146345	1	4
12	Valve Ball 1-1/16 - 12 Un-2A	022-09757-000	62507	1	4
13	O-Ring Neo1 00.924Id .116Thk M	028-12961-006	588821	2	4
14	Sensor Temperature 3000 Ohms	025-39517-000	118035	1	4
15	O-Ring Neo1 01.475Id .118Thk M	028-12961-017	618653	1	4

NOTE: Items with an * are NOT represented.



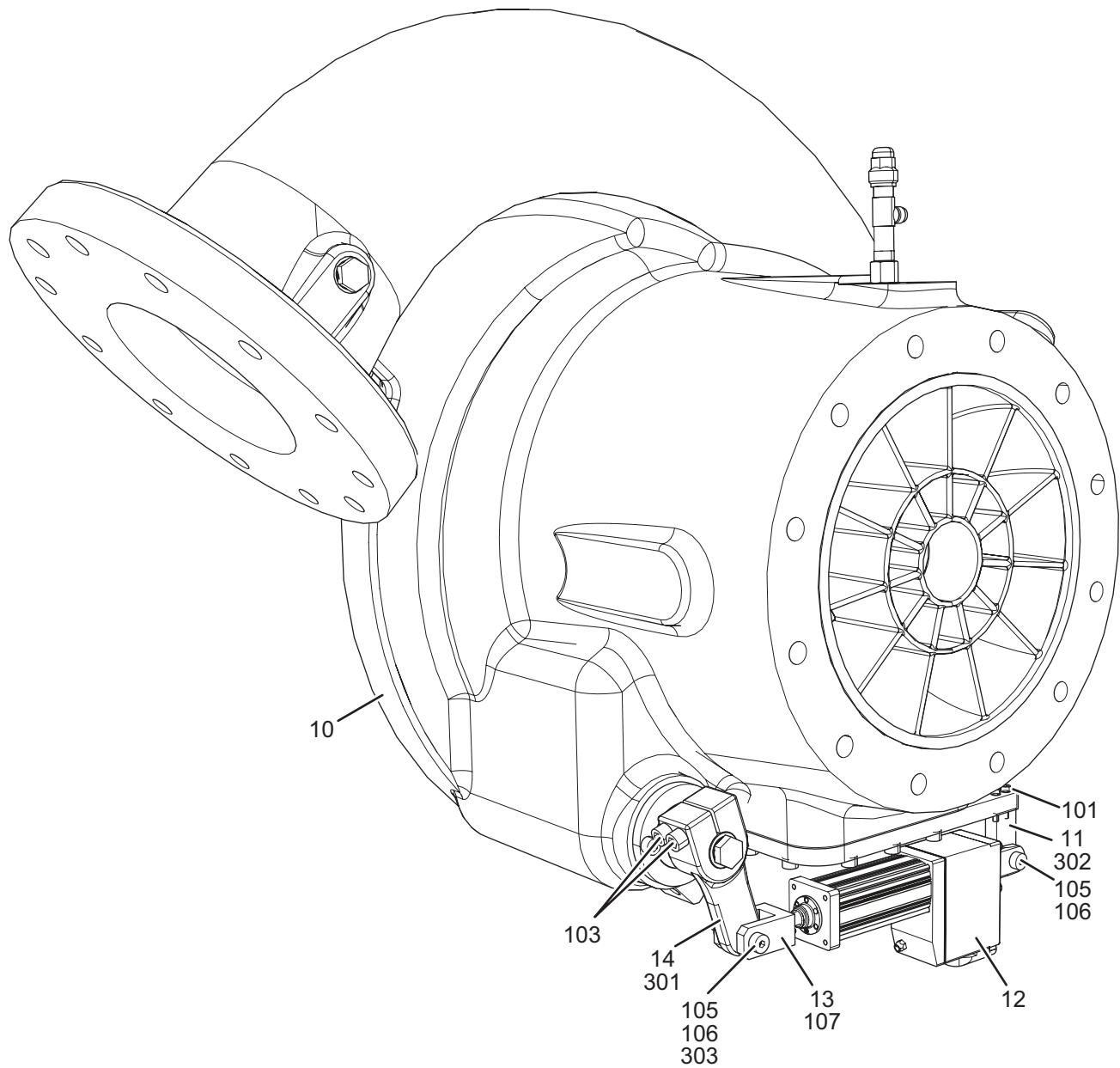
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FIGURE 4 - CONDENSER CLOSURES

TABLE 4 - COMPRESSOR COMPONENTS

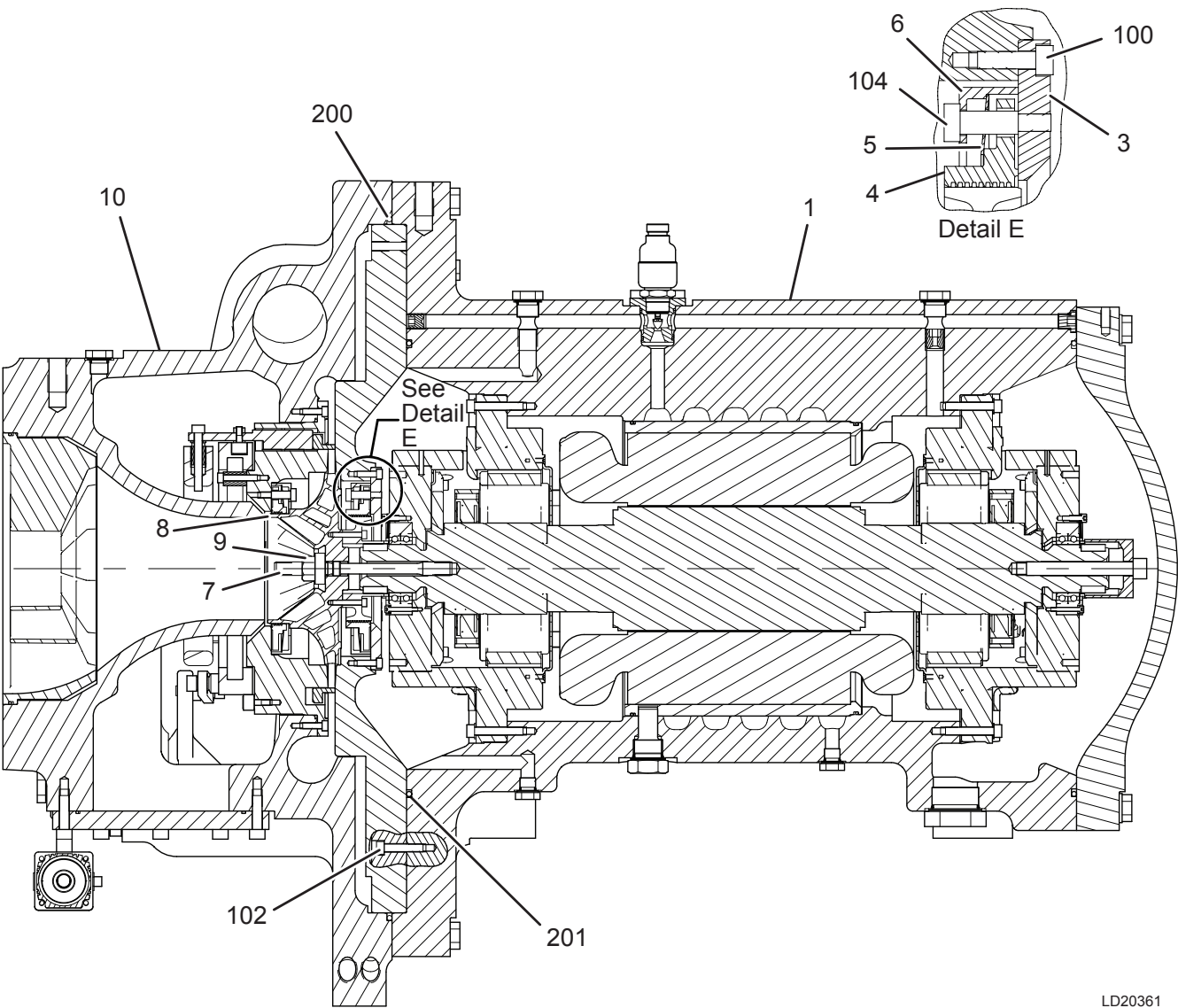
ITEM	COMPRESSOR CODE	DESCRIPTION	PART NUMBER	SAP	QUANTITY	FIGURE
1	ALL	Motor M6C	364-53160-000	886177	1	6
3	M6C-295FAC	Plate Seal	064-53307-000	901093	1	6
	M6C-331FAC	Plate Seal	064-53297-000	899959	1	
4	M6C-295FAC	Ring Seal	064-53305-000	901092	1	6
	M6C-331FAC	Ring Seal	064-53294-000	899956	1	
5	M6C-295FAC	Washer Spring	064-53303-000	900570	1	6
	M6C-331FAC	Washer Spring	064-53296-000	899958	1	
6	M6C-295FAC	Retainer Seal	064-53302-000	900569	1	6
	M6C-331FAC	Retainer Seal	064-53295-000	899957	1	
7	ALL	Stud Impeller 14X2	064-52802-000	747105	1	6
8	M6C-295FAC	Impr 295Fac	364-53288-001	901101	1	6
	M6C-331FAC	Impr 331Fac	364-53291-001	899970	1	6
9	ALL	Nut Impeller M14x2	064-52803-000	710536	1	6
10	M6C-295FAC	Scroll 295F-C	See Table 5		1	5, 6
	M6C-331FAC	Scroll 331F-C				
11	ALL	Eye Rod Exlar Actuator	064-53052-000	710452	1	5
12	ALL	Actuator Linear	025-44679-000	710442	1	5
13	ALL	Clevis Exlar Actuator	064-53053-000	710450	1	5
14	ALL	Lever External	064-53054-000	710454	1	5
100	ALL	SHCS M6x1x20 Stl	021-33076-020	705374	6	6
101	ALL	SHCS M6x1x30 Stl	021-33076-030	816704	2	5
102	ALL	SHCS M8x1.25x40 Stl	021-33077-040	705383	6	6
103	ALL	SHCS M12x1.75x55 Stl	021-33079-055	705389	2	5
104	ALL	SHSS Metric 8X20 Stl	021-33088-020	705393	3	6
105	ALL	Nut Hex M10x1.5 Style 1 Cl 10	021-33126-000	705399	2	5
106	ALL	SHSS Metric 12X45 Stl	021-33127-045	705402	2	5
107	ALL	Nut Hex Jam M10x1.5 Cl 05	021-33256-000	705408	1	5
200	ALL	O-Ring Hnbr 27.485ld .275Thk M	028-16519-000	710485	1	6
201	ALL	O-Ring Hnbr 19.955ld .275Thk M	028-16611-000	886121	1	6
301	ALL	Bushing Ggb Bb1207du	029-26137-000	710445	2	5
302	ALL	Bushing Ggb 1215Du	029-26138-000	710444	1	5
303	ALL	Bushing Ggb 1210Du	029-26141-000	710443	2	5

NOTE: Items with an * are NOT represented.



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FIGURE 5 - COMPRESSOR COMPONENTS

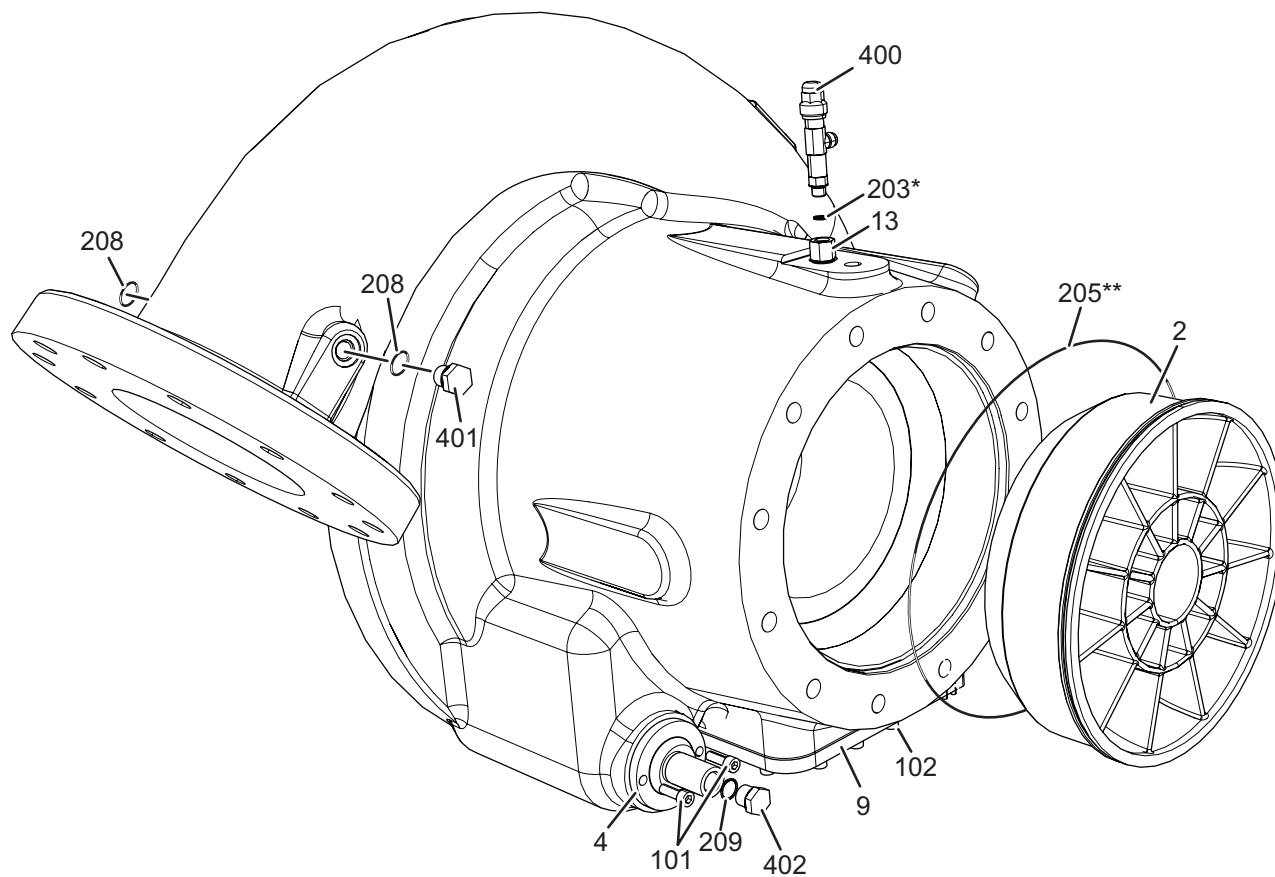


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FIGURE 6 - COMPRESSOR COMPONENTS

TABLE 5 - COMPRESSOR SCROLL COMPONENTS

ITEM	COMPRESSOR CODE	DESCRIPTION	PART NUMBER	SAP	QUANTITY	FIGURE
2	ALL	Straightener 14 Inch Suction	064-53187-000	899950	1	7
3	ALL	Shaft Control	064-52576-000	710460	1	8
4	ALL	Cover Shaft Control	064-52577-000	710451	1	7, 8
5	ALL	Link Internal	029-26308-000	841423	1	8
6	ALL	Fill piece	064-52766-025	899949	2	8
7	ALL	Lever Internal	064-53205-000	710455	1	8
8	M6C-295FAC	Device VGD	364-53473-000	901102	1	8
	M6C-331FAC		364-53317-000	899971	1	
9	ALL	Plate Handhole Cover Exlar	064-53203-000	710456	1	7
10	M6C-295FAC	Ring Seal	064-53304-000	901091	1	8
	M6C-331FAC		064-53293-000	899955	1	
11	M6C-295FAC	Washer Spring	064-53303-000	900570	1	8
	M6C-331FAC		064-53296-000	899958	1	
12	M6C-295FAC	Retainer Seal	064-53302-000	900569	1	8
	M6C-331FAC		064-53295-000	899957	1	
13	ALL	Adapter Conversion	064-52774-000	710099	1	7
100	ALL	SHCS M6x1x20 Stl	021-33076-020	705374	6	8
101	ALL	SHCS M10x1.5x30 Stl	021-33078-030	705385	2	7
102	ALL	SHCS M10x1.5x35 Stl	021-33078-035	705386	12	7
103	ALL	SHCS M10x1.5x55 Stl	021-33078-055	899947	2	8
104	ALL	SHCS M12x1.75x150 Stl	021-33079-150	705390	1	8
105	ALL	SHSS Metric 8X20 Stl	021-33088-020	705393	3	8
200	ALL	O-Ring Size=228 3.50 56.70Mm Neo1 N	028-03803-000	588784	1	8
201	ALL	O-Ring Size=216 2.60 28.20Mm Neo1 N	028-12200-000	588798	2	8
202	M6C-295FAC	O-Ring Size=904 1.83 8.90Mm Neo1 N	028-12961-001	588817	1	*
	M6C-331FAC	O-Ring Neo 19.719 Id X .139 Thk	028-12227-000	588806	1	
203	M6C-295FAC	O-Ring Size=906 2.00 11.90Mm Neo1 N	028-12961-003	588818	1	7
	M6C-331FAC	O-Ring Size=904 1.83 8.90Mm Neo1 N	028-12961-001	588817	1	
204	M6C-295FAC	O-Ring Hnbr 13.734Id .139Thk M	028-16738-000	917556	1	*
	M6C-331FAC	O-Ring Size=906 2.00 11.90Mm Neo1 N	028-12961-003	588818	1	
205	M6C-295FAC	O-Ring Size=267 3.50 209.10Mm Neo1 N	028-15078-000	588859	1	7, 8
	M6C-331FAC	O-Ring Hnbr 13.734Id .139Thk M	028-16738-000	917556	1	
206	M6C-295FAC	O-Ring Neo1 17.448 Id X .139Thk	028-15270-000	588873	1	8
	M6C-331FAC	O-Ring Size=267 3.50 209.10Mm Neo1 N	028-15078-000	588859	1	
207	ALL	O-Ring Size=138 2.60 53.60Mm Neo1 N	028-15432-000	588877	1	8
208	ALL	O-Ring Hnbr 00.602Id .087Thk M	028-16398-018	710515	3	7
209	ALL	O-Ring Hnbr 00.760Id .087Thk M	028-16398-022	710519	1	8
400	ALL	Valve Isln Angle Sc 8In Thd Sc	022-09578-000	588690	1	7
401	ALL	Plug Hex Hd M18x1.5	023-25111-018	705415	2	7
402	ALL	Plug Hex Hd M22x1.5	023-25111-022	705417	1	8



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FIGURE 7 - COMPRESSOR SCROLL COMPONENTS

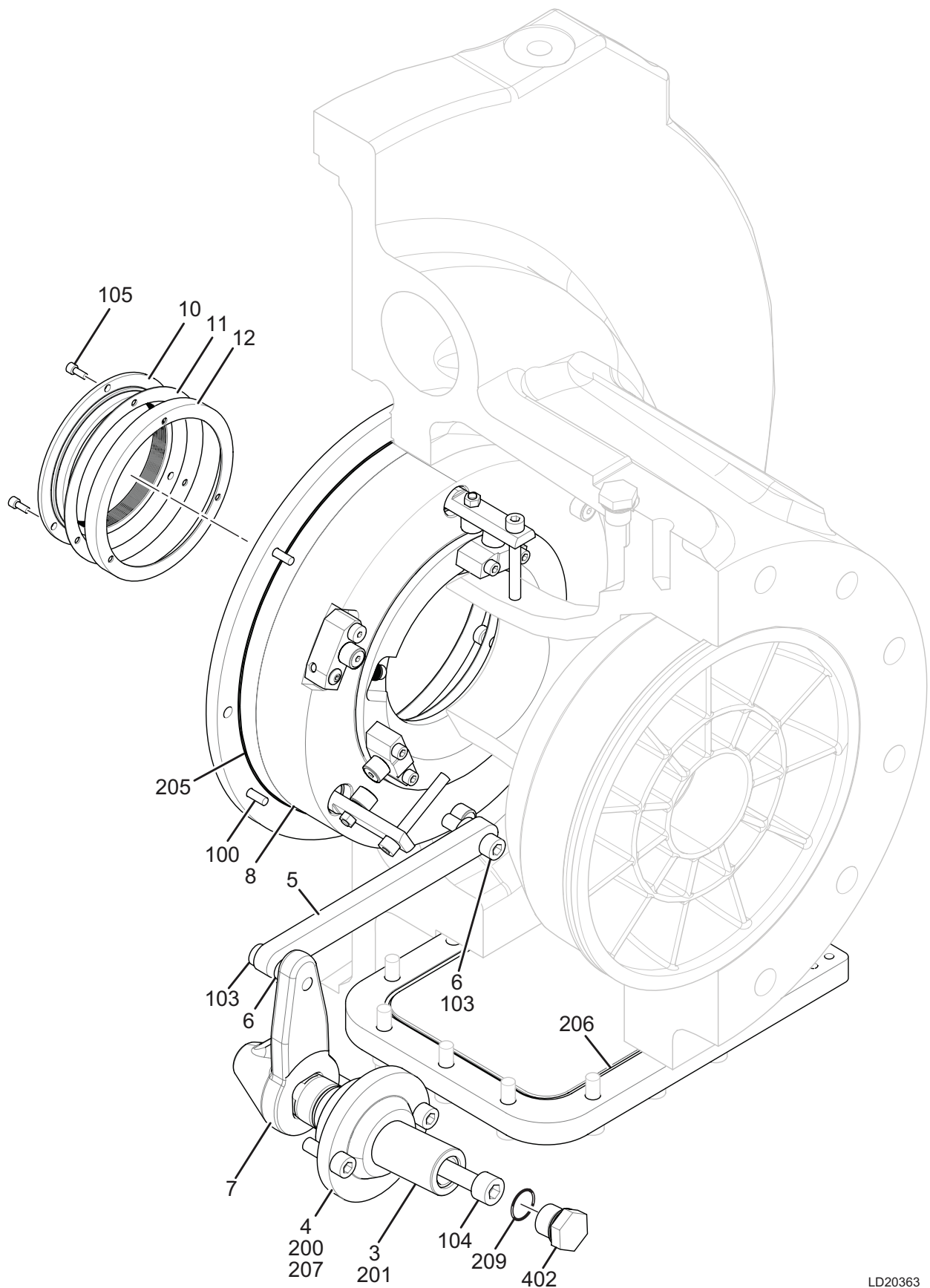


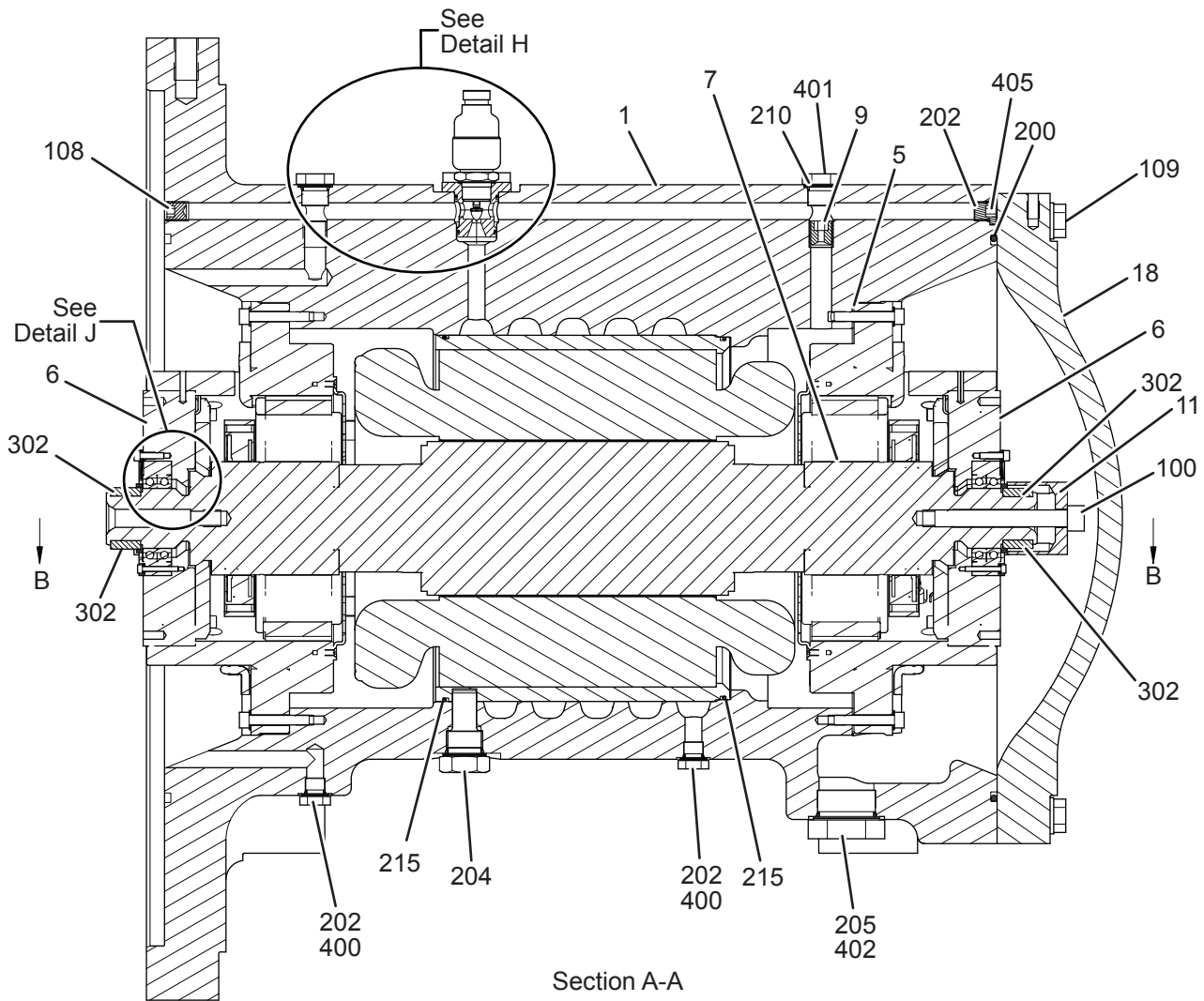
FIGURE 8 - COMPRESSOR SCROLL COMPONENTS

TABLE 6 - MOTOR COMPONENTS

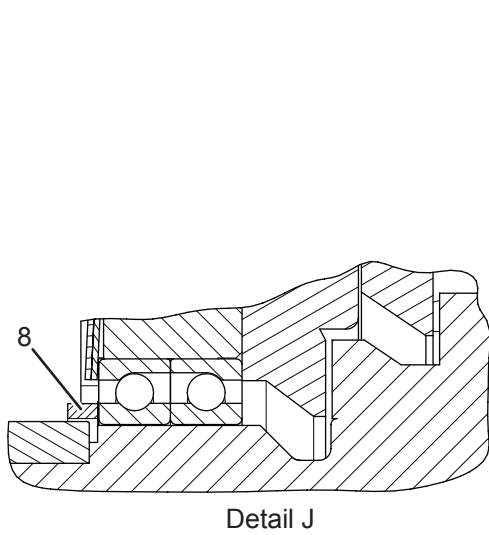
ITEM	DESCRIPTION	PART NUMBER	SAP	QUANTITY	FIGURE
1	Housing Motor M6	064-53226-000	886125	1	9
4	Terminal Motor	025-44002-000	705435	6	10
5	Shim Bearing M6	064-53230-000	886128	1	9
6	Cartridge Magnetic Brg M6	029-26157-000	886122	2	9
7	Rotor Motor M6	024-37650-000	886117	1	9
8	Ring Thrust	029-26192-000	886123	2	9
9	Orifice Plug M20x2.5x20 5 Dia	064-53662-000	1004857	1	9
11	Retainer	064-53240-000	1176496	1	9
12	Feedthrough Mbc Power Z1	025-45101-000	831839	1	10,11
13	Feedthrough Mbc Signal Z1	025-45111-000	831851	1	10, 11
14	Feedthrough Mbc Power Z2	025-45102-000	831840	1	10
15	Feedthrough Mbc Signal Z2	025-45112-000	831852	1	10
16	Retainer Feedthrough	064-53201-000	705458	2	10, 11
18	Cover Motor Housing M6	064-53228-000	886127	1	9
19	Controller Magnetic Bearing	025-45577-000	886120	1	10
20	Plate Assy., Connector Mounting	392-13709-000	991373	1	11
02	Plate Mounting Connector	364-54063-000	5003722	1	11
03	MBC Internal Wiring Harness	392-13709-200	991374	1	11
	Connector, Bulkhead Sz 1	025-45897-000	991342	1	
	Connector, Heavy Duty Sz 1	025-45898-000	991343	1	
	Contact Pin, Heavy Duty, 20-16 Awg	025-45904-000	991349	2	
	Contacts 20-16 Awg, Jst Type	025-44950-000	823956	2	
	Connector, 2-Pos Jst, N-Type Housing	025-44954-000	823958	1	
04	MBC Internal Wiring Harness	392-13709-201	991375	1	11
	Connector, Bulkhead, Size 1	025-45897-000	991342	1	
	Connector, Bulkhead, Size 1	025-45898-000	991343	1	
	Contact Pin, Heavy Duty, 20-16 Awg	025-45904-000	991349	8	
	Ferrule, 16Awg, 0.571"Lg.,0.071"Dia.	025-45924-000	991367	6	
	Terminal, Fast-On, Flag. Insulated 16-14 Awg	025-23736-000	144754	2	
05	MBC Internal Wiring Harness	392-13709-202	991376	1	11
	Connector Receptacle Housing, 4-Pos, Metal	025-45915-000	991360	1	
	Contact Pin, 20-22 Awg, Ins. Dia. 1.17-2.08	025-45919-000	991364	3	
	Cable, 4 Conductor, 22 Awg	025-31788-000	618187	6"	
	Connector Plug, Fmc 1.5/4-Stf-3.5	025-44949-000	823955	1	
06	MBC Internal Wiring Harness	392-13709-203	991377	1	11
	Connector Receptacle Housing, 4-Pos, Metal	025-45915-000	991360	1	
	Contact Pin, 20-22 Awg, Ins. Dia. 1.17-2.08	025-45919-000	991364	2	
	Contact Pin, 20-22 Awg, Ins. Dia. 1.17-2.08	025-28701-000	-	6"	
	Ferrules, #20 Wire, 0.453" Length, 0.043" Dia	025-44955-000	823959	2	
07	MBC Internal Wiring Harness	392-13709-204	991378	1	10,11
	Connector Receptacle Housing, 4 Pos Metal	025-45915-000	991360	1	
	Contact Pins 20-22 Awg Dia 1.17-2.08	025-45919-000	991364	2	
	Temp. Sensor, 50 Kohm @ 25 Deg C	025-44951-000	823957	1	

TABLE 6 - MOTOR COMPONENTS (CONT'D)

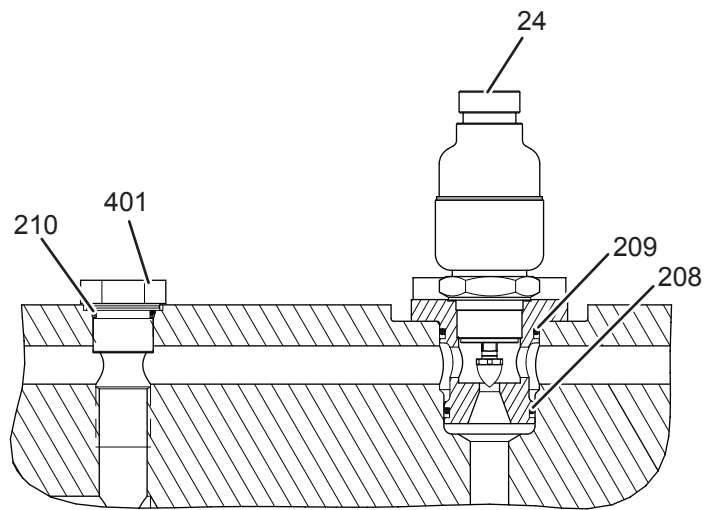
ITEM	DESCRIPTION	PART NUMBER	SAP	QUANTITY	FIGURE
08	Mbc Internal Wiring Harness	392-13709-205	991379	1	11
	Connector, Receptacle Housing, 12-Pos, Metal	025-45916-000	991361	1	
	Contact Pins, 20-22 Awg, Ins Dia 1.17-2.08Mm	025-45919-000	991364	12	
	CABLE, 22 AWG, 6 COND, 0.212" DIA (5.38MM)	025-31785-000	738643	16"	
	Jst Contact Pins, 22Awg	025-45903-000	991348	12	
	Jst Male Connector, 8-Pos	025-95905-000	-	2	
09	Cable Patch Cat5e, 4-Pair	025-44831-000	823941	1	11
010	Frame, Rj45 Panel Mounting,	025-44832-000	823942	1	11
011	Socket Rj45 Insert, Modular	025-44833-000	823943	1	11
012	Cover Protective, Ip67, Flat Design,	025-44834-000	823944	1	11
21	Cover MBC	364-53606-000	886179	1	10
24	EEV Cartridge	325-44710-000	697875	1	9
100	Screw Cap Socket M14 X 2.5 L=110Mm Steel	021-33074-110	886114	1	9
108	Screw Set M 16 P=2 L=16mm Steel GrA	021-33255-016	705407	1	9
109	HCS M16 X 2 X 90 Stl	021-33287-090	816705	20	9
110	Nut Hex Jam M16x2	021-33159-000	705405	27	10
200	O-Ring Hnbr 19.955Id .275Thk M	028-16611-000	886121	1	9
201	O-Ring Hnbr 00.319Id .063Thk M	028-16398-010	706200	1	11
202	O-Ring Hnbr 00.524Id .087Thk M	028-16398-016	706281	3	9
203	O-Ring Hnbr 00.929Id .114Thk M	028-16398-027	706282	6	10
204	O-Ring Hnbr 01.047Id .114Thk M	028-16398-030	706283	1	9
205	O-Ring Hnbr 01.756Id .114Thk M	028-16398-048	706284	1	9
206	O-Ring Size=281 3.50 380.60Mm Hnbr N N/A	028-15063-000	628212	1	10
207	Grommet Special	028-16525-000	705438	2	10
208	O-Ring Size=122 2.60 28.20Mm Hnbr N N/A	028-16568-000	697872	1	9
209	O-Ring Size=124 2.60 31.40Mm Hnbr N N/A	028-16569-000	697873	1	9
210	O-Ring Hnbr 00.760Id .087Thk M	028-16398-022	710519	2	9
211	O-Ring Hnbr 01.859Id .139Thk M	028-16581-000	705428	4	10, 11
213	Gasket Mounting Connector	028-16849-000	5003715	1	11
214	Gasket Plate Mbc Cover	028-16847-000	5003714	1	10
215	O-Ring Hnbr 13.984Id .139Thk M	028-16784-000	1088417	2	9
300	Terminal Ground	025-44003-000	705436	1	10
302	Key Rotor M6	029-26235-000	886124	4	9
400	Plug Hex Hd M16x1.5	023-25111-016	705414	2	9
401	Plug Hex Hd M22x1.5	023-25111-022	705417	2	9
402	Plug Hex Hd M48x2	023-25111-048	705422	1	9
403	Fitting Liquid-Tight M16x1.5	025-44015-000	705425	1	11
405	Plug Hollow Hex M16x1.5	023-26144-016	1032244	1	9
500	Switch Hi Press Cutout Metric	025-43936-235	740381	1	11
501	Wire MBC Ground Assy	325-45374-000	865223	1	10
502	Term Push-On Adpt 90 Deg	025-45376-000	865109	1	10



Section A-A



Detail J



Detail H

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FIGURE 9 - MOTOR COMPONENTS

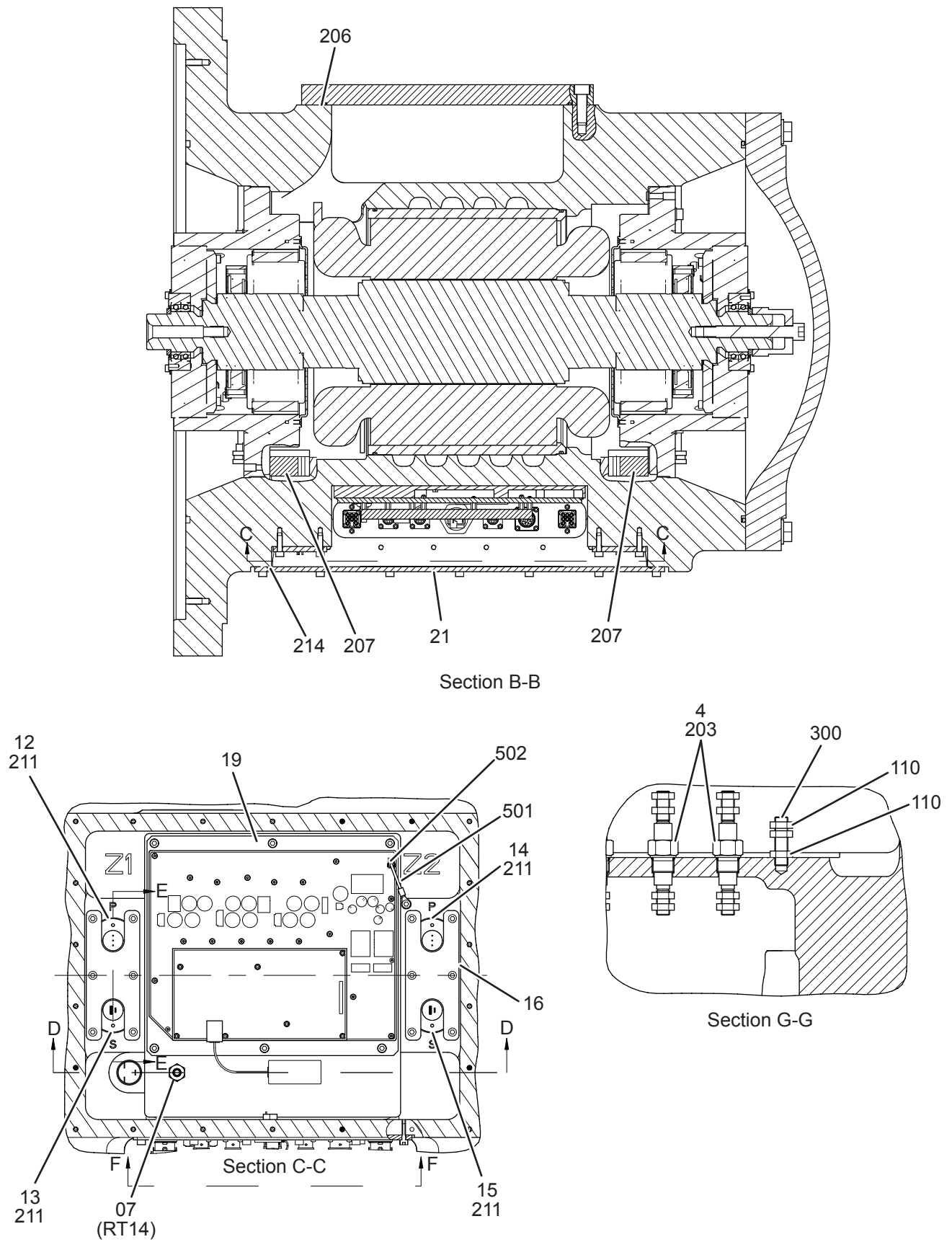
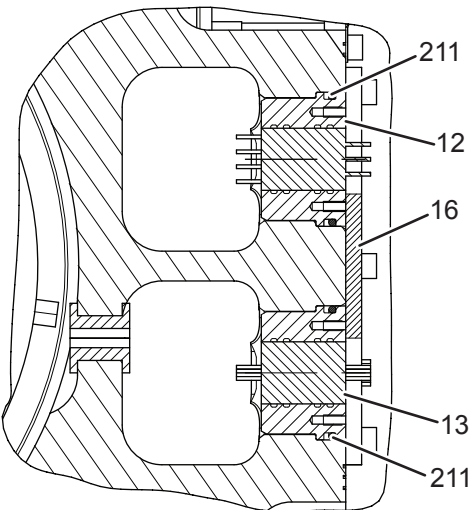
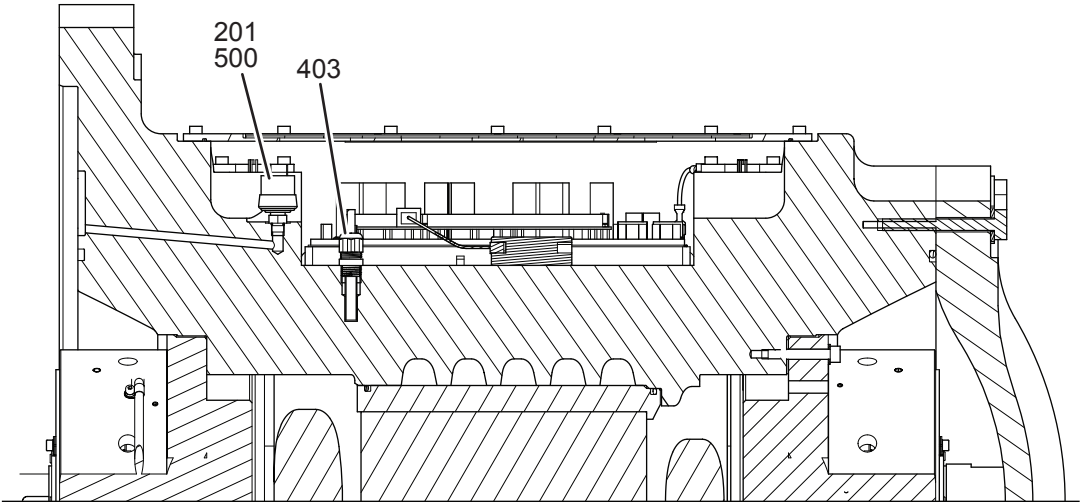


FIGURE 10 - MOTOR COMPONENTS

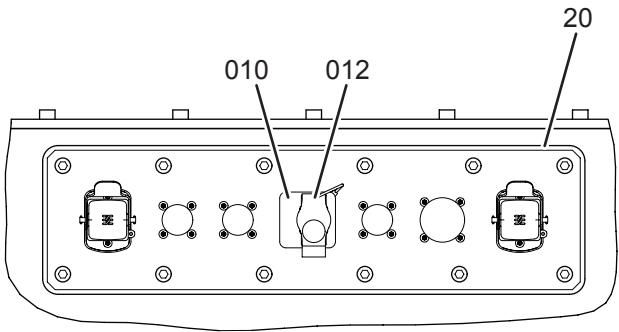
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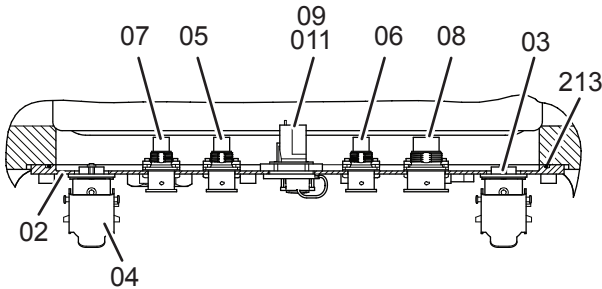
Section E-E



Section D-D



View F-F



Section N-N

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FIGURE 11 - MOTOR COMPONENTS

TABLE 7 - HOT GAS KIT

ITEM	DESCRIPTION	PART NUMBER	SAP	QUANTITY	FIGURE
1	Valve Butterfly Size 3	022-10643-003	617137	1	12
5	Valve Check Stop Od 79.37Mm / 3-1/8In Ci	022-12643-000	990335	1	12
6	HCS5 0.625-11 X 5.500 Gr 5 Zn	021-32010-044	820310	4	12
7	HCS5 0.625-11 X 4.500 Gr 5 Zn	021-32010-036	616908	4	12
8	HCS5 0.750-10 X 2.250 Gr 5 Zn	021-32012-018	730849	4	12
9	Nut Hex 0.625-11 X Gr 5 Zn	021-32010-501	616911	4	12
10	Gasket Flange For Valve (With Isolation Valve)	028-16754-000	990612	1	12
11	Gasket 3 Inch Valve (With Isolation Valve)	064-47079-000	746610	1	12
12	Actuator	025-38180-000	59351	1	12

NOTE: Items with an * are NOT represented.

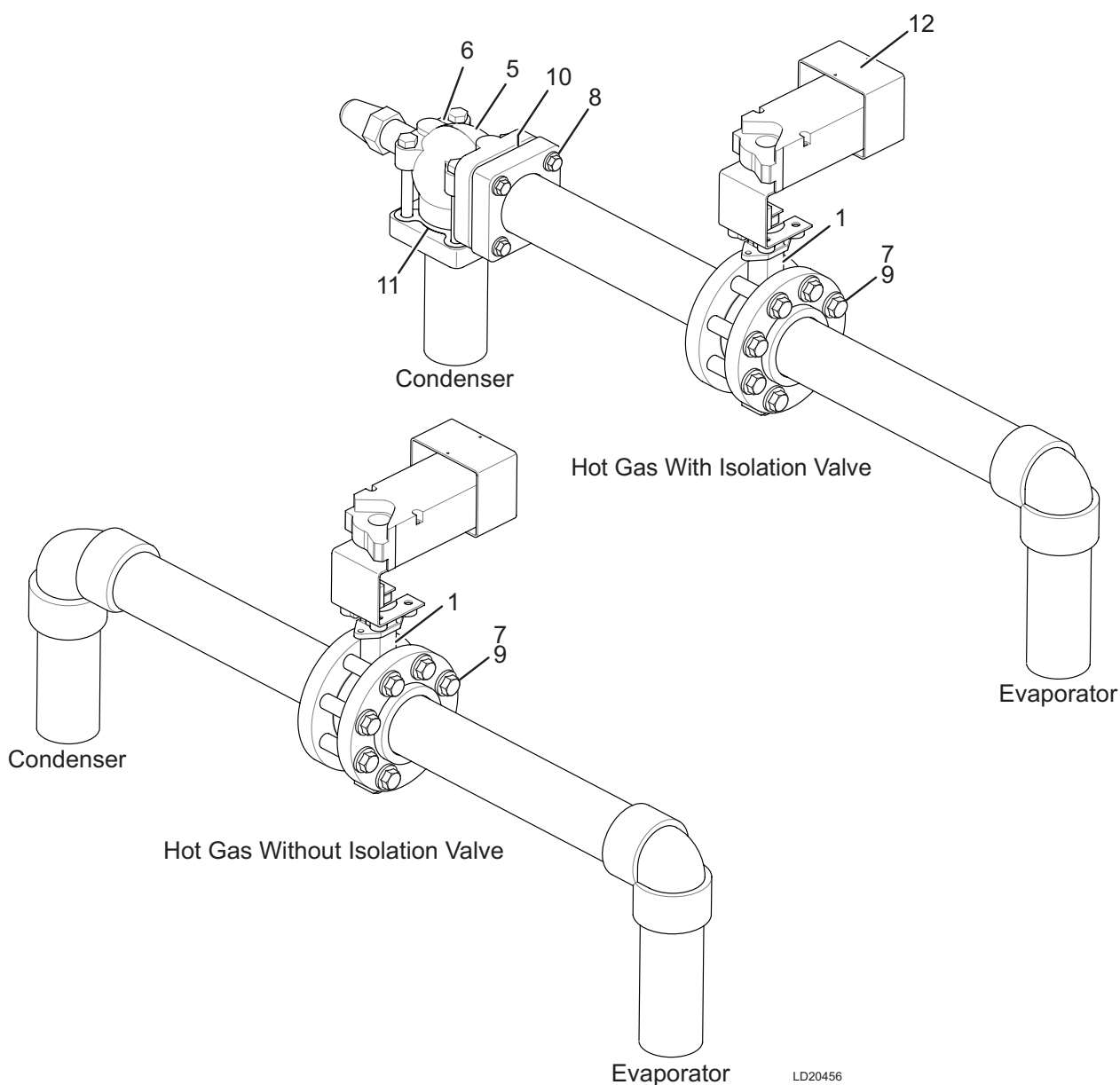


FIGURE 12 - HOT GAS KIT

TABLE 8 - LIQUID LINE KIT

ITEM	DESCRIPTION	PART NUMBER	SAP	QUANTITY	FIGURE
2	Gasket 3 Inch Valve	064-47079-000	746610	1	13
3	Valve Check Stop Od 79.37Mm / 3-1/8In Ci	022-12643-000	990335	1	13
4	HCS 5 0.625-11 X 5.500 Gr 5 Zn	021-32010-044	820310	4	
5	Gasket Flange For Valve	028-16754-000	990612	2	13
8	Valve Butterfly Size 3	022-10642-003	617133	1	13
9	Nut Hex 0.625-11 X Gr 5 Zn	021-32010-501	616911	4	13
11	Flange Condenser	092-12058-001	990638	1	13
12	Stud Conds Thd 5/8 -11Unc	021-12758-000	729651	4	13
13	Flange Condenser	092-12059-001	990640	1	13
21	O-Ring Size=906 2.00 11.90Mm Neo1 N N/A	028-12961-003	588818	1	13
22	Valve Stop Ang Vertical	022-10054-000	617117	1	13

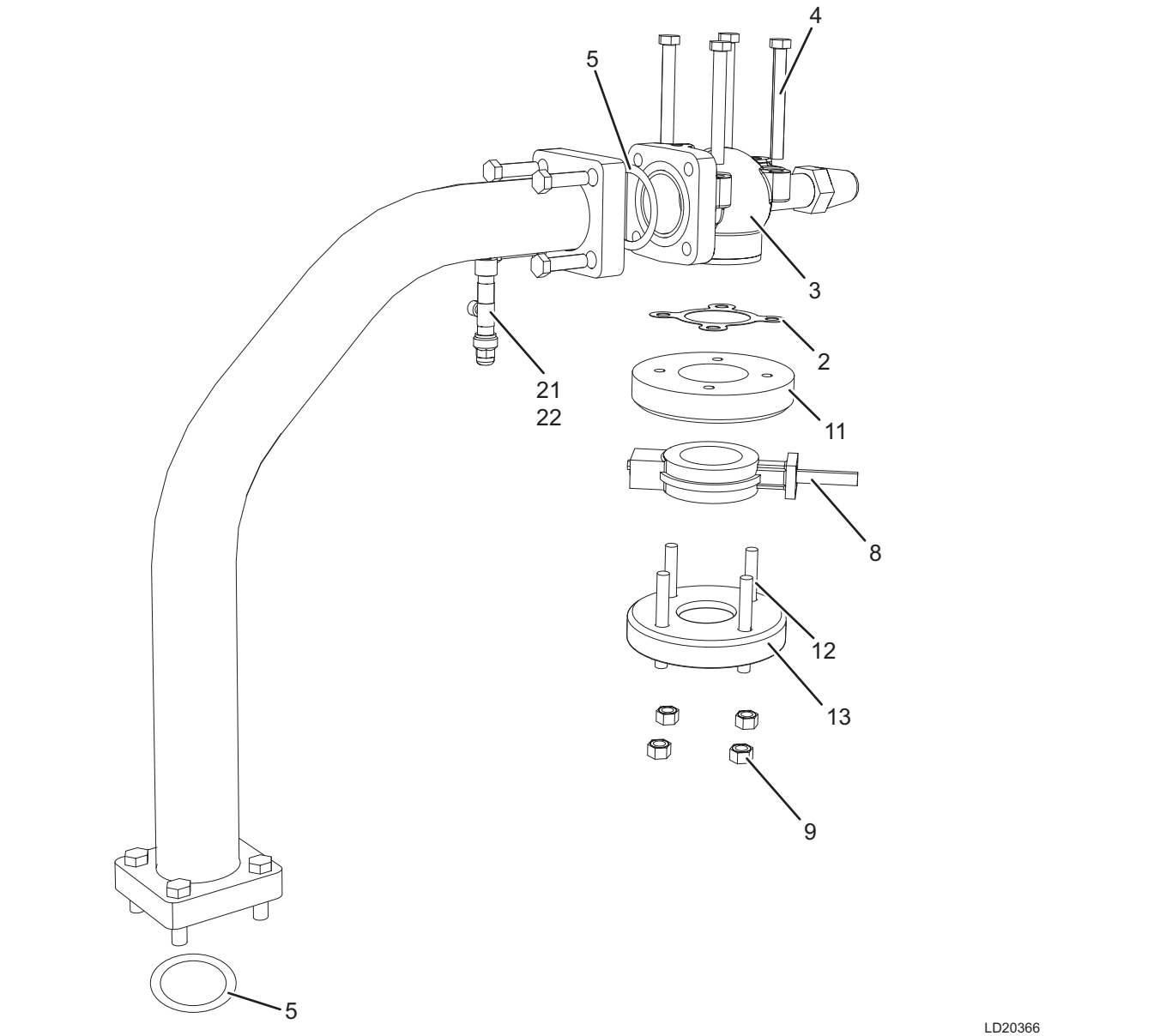


FIGURE 13 - LIQUID LINE KIT

TABLE 9 - EVAPORATOR WATERBOX GASKETS (COMPACT)

150# COMPACT WATERBOX									
EVAPORATOR CODE	1 PASS			2 PASS			3 PASS		
	GASKET P/N	QTY	FEET REQ'D	GASKET P/N	QTY	FEET REQ'D	GASKET P/N	QTY	FEET REQ'D
EC33	092-18800-011	2	-	028-16790-000	-	3'	028-16790-000	-	5.5'
				092-18800-011	2	-	092-18800-011	2	-
EC39	092-18800-015	2	-	028-16790-000	-	3.5'	028-16790-000	-	7'
				092-18800-015	2	-	092-18800-015	2	-

300# COMPACT WATERBOX						
EVAPORATOR CODE	1 PASS		2 PASS		3 PASS	
	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D
EC33	028-03242-000	18'	028-16790-000	2.7'	028-16790-000	5.2'
			028-03242-000	18'	028-03242-000	18'
EC39	028-03242-000	21.5'	028-16790-000	3.5'	028-16790-000	6.5'
			028-03242-000	21.5'	028-03242-000	21.5'

NOTE: When ordering Gasket Material specify length required by replacing the -000 with either -025 for 25', -050 for 50', or -100 for 100'.

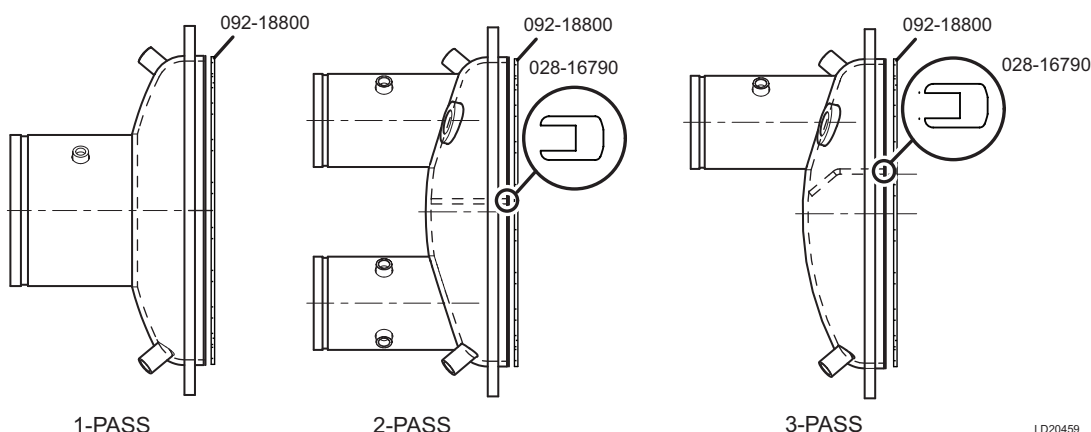


TABLE 10 - EVAPORATOR WATERBOX GASKETS (MARINE)

150# MARINE WATERBOX									
EVAPORATOR CODE	1 PASS			2 PASS			3 PASS		
	GASKET P/N	QTY	FEET REQ'D	GASKET P/N	QTY	FEET REQ'D	GASKET P/N	QTY	FEET REQ'D
EC33	028-16790-000	-	35'	028-16790-000	-	23'	028-16790-000	-	41'
				092-18800-011	1	-			
EC39	028-16790-000	-	42'	028-16790-000	-	27.5'	028-16790-000	-	54'
				092-18800-015	1	-			

300# MARINE WATERBOX						
EVAPORATOR CODE	1 PASS		2 PASS		3 PASS	
	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D
EC33	028-03242-000	36'	028-09951-001	5.5'	028-09951-001	10.4'
			028-03242-000	27'	028-03242-000	36'
EC39	028-03242-000	43'	028-16790-000	6.5'	028-16790-000	13'
			028-03242-000	32.5'	028-03242-000	43'

NOTE: When ordering Gasket Material specify length required by replacing the -000 with either -025 for 25', -050 for 50', or -100 for 100'.

TABLE 11 - 3/4" EVAPORATOR TUBES

EVAP CODE	LENGTH	TUBE QTY.	COPPER			COPPER NICKEL	
			0.025 WALL	0.028 WALL	0.035 WALL	0.028 WALL	0.035 WALL
			MT #271	MT #272	MT #273	MT #177	MT #179
EC33	12	404	007-11270-000	007-11271-000	007-11272-000	007-10730-000	007-10731-000
		460					
		513					
		578					
	14	404	007-11295-000	007-11296-000	007-11297-000	007-08830-000	007-08644-000
		460					
		513					
		578					
EC39	14	565	007-11295-000	007-11296-000	007-11297-000	007-08830-000	007-08644-000
		665					
		780					
		897					

TABLE 12 - 1" EVAPORATOR TUBES

EVAP CODE	LENGTH	TUBE QTY.	COPPER				
			.025 WALL	.028 WALL	.035 WALL	.028 WALL	.028 WALL
			MT #286	MT #287	MT #288	MT #326	MT #327
EC33	12	218	007-11282-000	007-11283-000	007-11284-000	007-10705-000	007-10706-000
		251					
		283					
		315					
	14	218	007-10090-000	007-10091-000	007-10092-000	007-10219-000	007-10220-000
		251					
		283					
		315					
EC39	14	295	007-10090-000	007-10091-000	007-10092-000	007-10219-000	007-10220-000
		325					
		424					
		473					

	COPPER						
	0.025 WALL	0.028 WALL	0.035 WALL	0.025 WALL	0.028 WALL	0.035 WALL	0.025 WALL
	MT #321	MT #322	MT #323	MT #371	MT #372	MT #373	MT #391
	007-10699-000	007-10700-000	007-10701-000	007-10711-000	007-10712-000	007-10713-000	007-11281-000
	007-10203-000	007-10204-000	007-10205-000	007-10692-000	007-10693-000	007-10694-000	007-11306-000
	007-10203-000	007-10204-000	007-10205-000	007-10692-000	007-10693-000	007-10694-000	007-11306-000

	COPPER					
	.035 WALL	.025 WALL	.035 WALL	.025 WALL	.025 WALL	.028 WALL
	MT #328	MT #376	MT #378	MT #371	MT #396	MT #397
	007-10707-000	007-10717-000	007-10718-000	007-10719-000	007-11227-000	007-11254-000
	007-10221-000	007-10695-000	007-10696-000	007-10697-000	007-11229-000	007-11256-000
	007-10221-000	007-10695-000	007-10696-000	007-10697-000	007-11229-000	007-11256-000

TABLE 13 - CONDENSER TUBES 3/4" TUBES

COND. CODE	LENGTH	TUBE QTY.	COPPER			COPPER NICKEL		COPPER	
			.025 WALL	.028 WALL	.035 WALL	.028 WALL	.035 WALL	.025 WALL	.028 WALL
			MT #260	MT #261	MT #262	MT #201	MT #203	MT #225	MT #226
CB29	12	514							
		557	007-09289-000	007-09282-000	007-09283-000	007-08412-000	007-07935-000	007-09200-000	007-08518-000
		619							
CB33	10	503							
		601	007-09288-000	007-09280-000	007-09281-000	007-07881-000	007-07876-000	007-08508-000	007-08897-000
		787							
		875							
	14	503	007-09262-000	007-09263-000	007-09264-000	007-09859-000	007-09860-000	007-08650-000	007-08641-000
		601							
		787							
		875							
CB39	14	815							
		935	007-09262-000	007-09263-000	007-09264-000	007-09859-000	007-09860-000	007-08650-000	007-08641-000
		1037							

TABLE 14 - CONDENSER TUBES 1" TUBES

CONDENSER CODE	LENGTH	TUBE QTY.	COPPER			
			.025 WALL	.028 WALL	.035 WALL	.028 WALL
			MT #266	MT #267	MT #268	MT #317
			MT #260	MT #261	MT #262	MT #261
CB29	12	251	007-11320-000	007-11321-000	007-11322-000	007-11323-000
			007-09289-000	007-09282-000	007-09283-000	007-09282-000
		303	007-11320-000	007-11321-000	007-11322-000	007-11323-000
			007-09289-000	007-09282-000	007-09283-000	007-09282-000
CB33	10	287	007-10439-000	007-10440-000	007-10441-000	007-10446-000
			007-09288-000	007-09280-000	007-09281-000	007-09280-000
		337	007-10439-000	007-10440-000	007-10441-000	007-10446-000
			007-09288-000	007-09280-000	007-09281-000	007-09280-000
		443	007-10439-000	007-10440-000	007-10441-000	007-10446-000
			007-09288-000	007-09280-000	007-09281-000	007-09280-000
	14	287	007-10054-000	007-10055-000	007-10056-000	007-10120-000
			007-09262-000	007-09263-000	007-09264-000	007-09263-000
		337	007-10054-000	007-10055-000	007-10056-000	007-10120-000
			007-09262-000	007-09263-000	007-09264-000	007-09263-000
		443	007-10054-000	007-10055-000	007-10056-000	007-10120-000
			007-09262-000	007-09263-000	007-09264-000	007-09263-000
CB39	14	385	007-10054-000	007-10055-000	007-10056-000	007-10120-000
			007-09262-000	007-09263-000	007-09264-000	007-09263-000
		467	007-10054-000	007-10055-000	007-10056-000	007-10120-000
			007-09262-000	007-09263-000	007-09264-000	007-09263-000
		565	007-10054-000	007-10055-000	007-10056-000	007-10120-000
			007-09262-000	007-09263-000	007-09264-000	007-09263-000

TABLE 15 - CONDENSER WATERBOX GASKETS (COMPACT)

150# COMPACT WATERBOX									
EVAPORATOR CODE	1 PASS			2 PASS			3 PASS		
	GASKET P/N	QTY	FEET REQ'D	GASKET P/N	QTY	FEET REQ'D	GASKET P/N	QTY	FEET REQ'D
CB29	092-18800-008	2	-	028-16790-000	-	3'	028-16790-000	-	5'
				092-18800-008	2	-	092-18800-008	2	-
CB33	092-18800-011	2	-	028-16790-000	-	3'	028-16790-000	-	5.5'
				092-18800-011	2	-	092-18800-011	2	-
CB39	092-18800-015	2	-	028-16790-000	-	3.5'	028-16790-000	-	6.5'
				092-18800-015	2	-	092-18800-015	2	-

NOTE: When ordering Gasket Material specify length required by replacing the -000 with either -025 for 25', -050 for 50', or -100 for 100'.

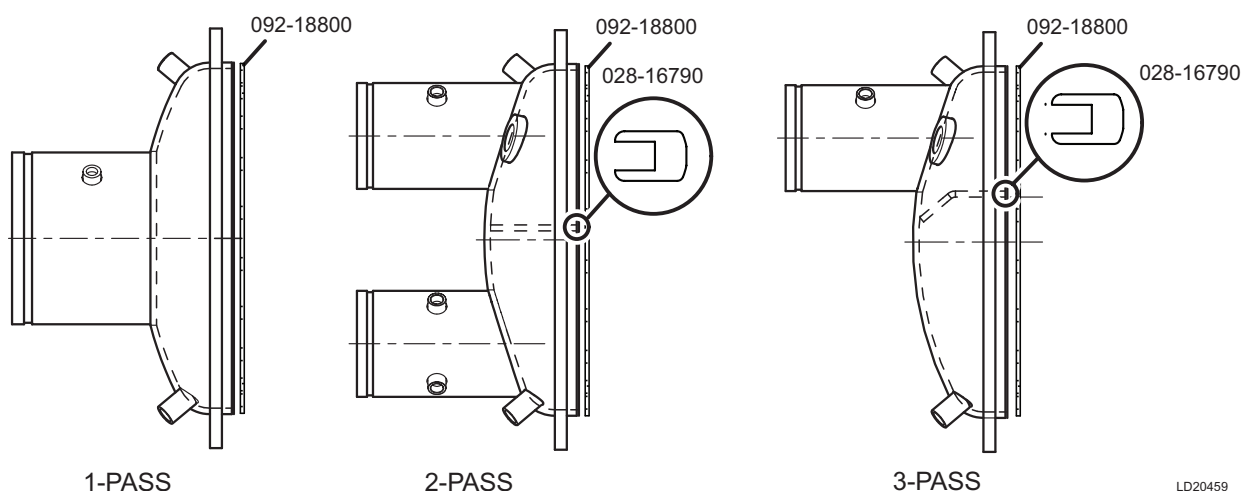


TABLE 16 - CONDENSER WATERBOX GASKETS (MARINE)

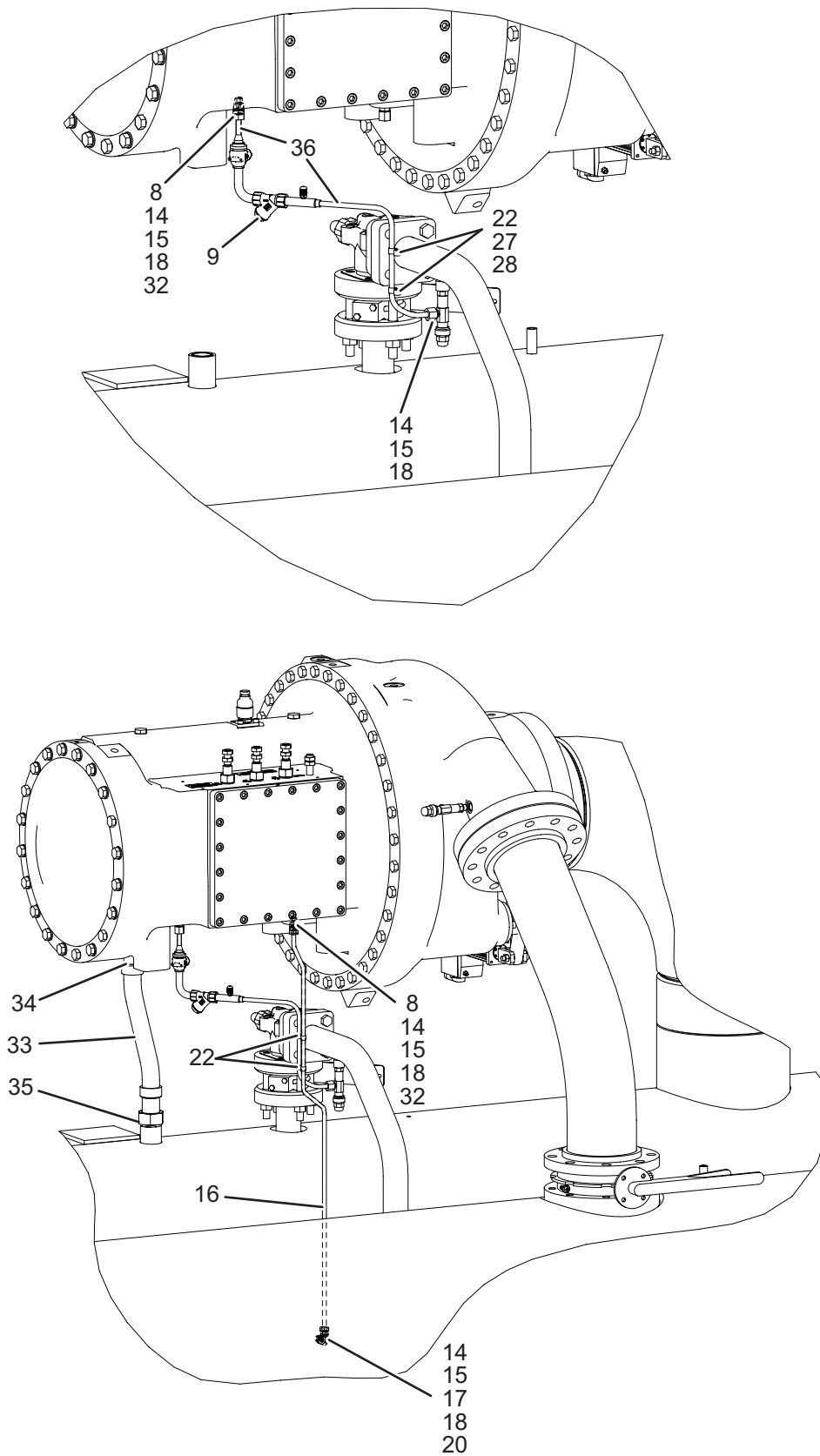
150# MARINE WATERBOX									
EVAPORATOR CODE	1 PASS			2 PASS			3 PASS		
	GASKET P/N	QTY	FEET REQ'D	GASKET P/N	QTY	FEET REQ'D	GASKET P/N	QTY	FEET REQ'D
CB29	028-16790-000	-	31.5'	028-16790-000	-	20.5'	028-16790-000	-	41'
				092-18800-008	1	-			
CB33	028-16790-000	-	35.5'	028-16790-000	-	23.5'	028-16790-000	-	47'
				092-18800-011	1	-			
CB39	028-16790-000	-	42'	028-16790-000	-	27.5'	028-16790-000	-	55'
				092-18800-015	1	-			

NOTE: When ordering Gasket Material specify length required by replacing the -000 with either -025 for 25', -050 for 50', or -100 for 100'.

TABLE 17 - SYSTEM PIPING

ITEM	OBJECT DESCRIPTION	PART NUMBER	SAP	QUANTITY	FIGURE
8	Metric Connr 3/8" O.D. Tube	023-25284-016	734184	2	14
9	Valve / Strainer YMC2	022-12911-000	731484	1	14
14	Sleeve 3/8 O.D. Tube	023-18978-000	146244	4	14
15	Nut 3/8 O.D. Tube	023-18977-000	146243	4	14
16	Tube Steel 3/8 Od X .035 X	003-02407-000	588251	7'	14
17	O-Ring Neo1 00.468Id .078Thk M	028-12961-003	588818	2	14
18	O-Ring Neo1 00.364Id .070Thk M	028-12961-012	618648	4	14
20	Elbow 3/8 O.D.Tube 90 Deg Male	023-18980-000	146246	1	14
22	Clamp Tube 3/8 Od With	023-06552-000	146424	4	14
27	Screw Mach Pan Hd Recd 1	021-01722-000	616693	2	14
28	Nut Hex Mach Scr #8 - 32	021-08661-000	729477	2	14
32	O-Ring Hnbr 00.524Id .087Thk M	028-16398-016	706281	2	14
33	Hose, Motor Cooling Braided Flex	026-46971-001	986006	1	14
34	O-Ring Hnbr 01.756Id .114Thk M	028-16398-048	706284	1	14
35	O-Ring Neo1 01.489Id .070Thk M	028-12961-019	618655	1	14
36	Tube Steel 3/8 Od X .035 X	003-00969-000	588251	2.5	14

NOTE: Items with an * are NOT represented.



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FIGURE 14 - SYSTEM PIPING

TABLE 18 - EVAPORATOR RELIEF VALVE KIT

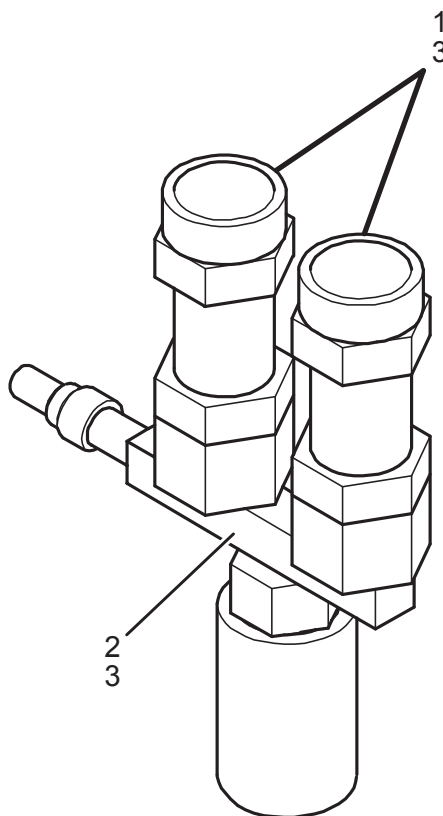
ITEM	DESCRIPTION	PART NUMBER	SAP	QUANTITY	FIGURE
1	Valve, Relief 1-5/8 -12Un-2A (Dual)	022-10079-000	3962	2	15
	Valve, Relief 1-5/8 -12Un-2A (Single)			1	
2	Valve, Stop 3 Way 1-5/8	022-12412-000	1135056	1	15
3	O-Ring Neo1 01.475ld .118Thk M (Dual)	028-12961-017	618653	3	15
	O-Ring Neo1 01.475ld .118Thk M (Single)			1	

NOTE: Items with an * are NOT represented.

TABLE 19 - CONDENSER RELIEF VALVE KIT

ITEM	DESCRIPTION	PART NUMBER	SAP	QUANTITY	FIGURE
1	Valve, Relief 1-5/16 -12Un-2A	022-10078-000	4102	2	15
	Valve, Relief 1-5/8 -12Un-2A	022-10079-000	3962	2	
2	Brass Valve, Stop 3 Way 1-5/16	022-10073-000	4103	1	15
	Steel Valve, Stop 3 Way 1-5/16	022-12411-000			
	Brass Valve, Stop 3 Way 1-5/8	022-10074-000	4104	1	
	Steel Valve, Stop 3 Way 1-5/8	022-12412-000			
3	O-Ring Neo1 01.171ld .116Thk M	028-12961-008	588822	3	15
	O-Ring Neo1 01.475ld .118Thk M	028-12961-017	618653	3	

NOTE: Items with an * are NOT represented.



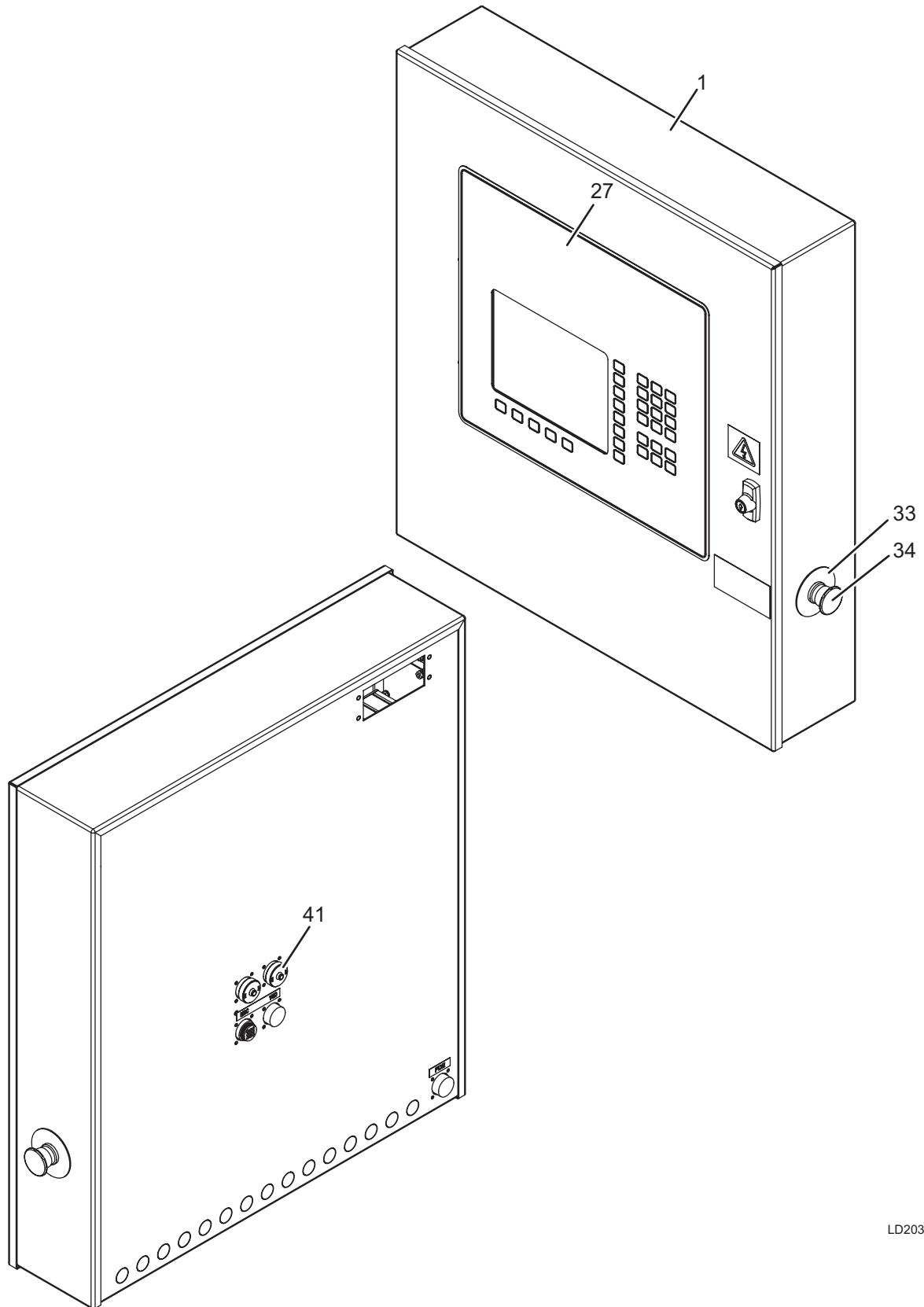
LD17512

FIGURE 15 - EVAPORATOR AND CONDENSER RELIEF VALVE KIT

TABLE 20 - OPTIVIEW CONTROL PANEL

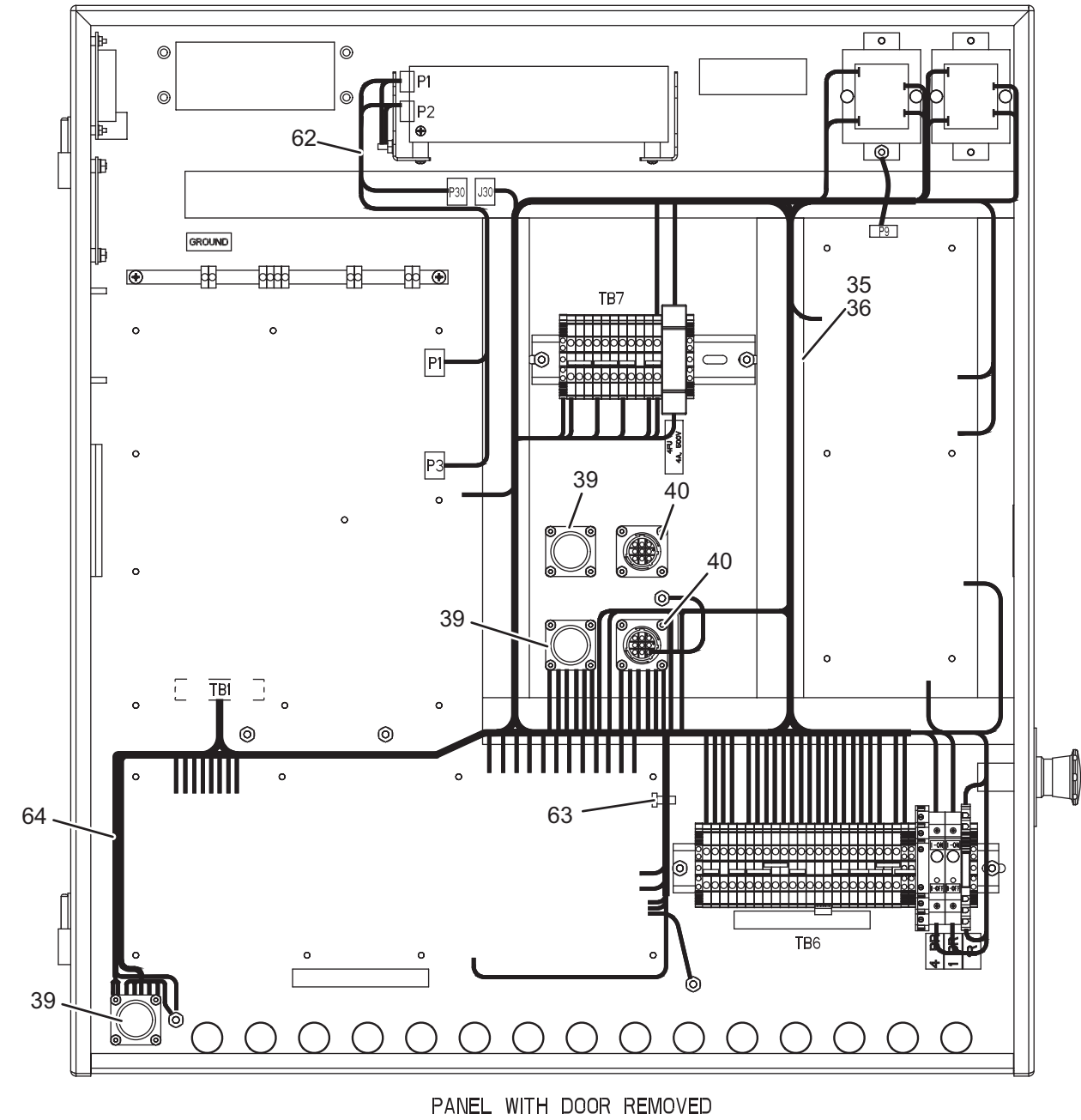
ITEM	DESCRIPTION	PART NUMBER	SAP	QUANTITY	FIGURE
1	Enclosure Assembly, Optiview YMC2 Mod B	371-06986-310	5134754	1	16
2	Clamp Ribbon Wire, Gray	025-25156-000	737712	2	18
3	Clamp, Ribbon Wire Gray,	025-29103-000	738253	1	18
4	Spacer, Round, #8-32X5/8Lg	021-19668-000	730522	22	19
5	Control Ym I/O Board	031-01743-002	743822	1	19
6	Class 2 Stepdown Transformer	025-30889-000	738521	2	19
8	Mount Anti-Vibration	021-19191-000	730394	4	19
9	Power Supply	025-34111-000	1386	1	19
12	Contr, Optiview Microboard, YMC2 with program	331-03630-614	5134744	1	19
13	Control VGD Stall Detector Bd.	031-02418-001	360270	1	19
14	Spacer, Round 1/4 Od X .125 Id	021-33239-000	731074	4	19
15	Gasket 1/16 X 1/2 Neoprene	071-05170-000	749141	1	18
17	Kit, Display YM Panel	331-01771-000	770400	1	18
18	Spacer, Plastic, 3/8 Od X 1	021-19173-000	730387	4	18
21	IB2 Interface Board	025-44647-000	740574	1	19
25	Clamp, Flat Cable Ferrite	025-34172-000	739020	1	19
27	Switch, Keypad, YMC2, Optiview	024-37399-000	736452	1	16
28	Bus Bar YMC2 M2 Optiview Control Panel	071-05619-320	1077634	1	19
29	Cable Clamp Uninsulated	025-44478-000	740503	10	19
31	Strap Grounding	025-32505-001	738720	1	19
33	Legend Plate, E-Stop	025-44646-000	740573	1	16,18
34	Switch Pushbutton, E-Stop 2 N.C.	025-43677-000	740330	1	16,18
35	Wire Duct, 1X3x6lg, Gray	025-43675-000	740328	6.6	17
36	Wire Duct Cover, 1X1 Gray	025-43676-000	740329	6.6	17
38	Rail, Din, Tab, 35 X 7.5 X 127 MM Lg	071-05906-050	837972	1	18
39	Connector Recp Hsg, 9 Pos	025-38171-000	117999	3	17
40	Connector Recp Hsg, 9 Pos	025-37873-000	739490	2	17
41	Cap, Sealing Electrical Connr	028-15121-000	742077	2	16
42	Kit, TB6 M2	025-44524-000	740520	1	19
42a	Ground Terminal	025-44574-000	837881	4	
42b	Feed Through Terminal	025-44576-000	837883	23	
42c	Relay, 120 VAC Coil	025-49306-000	5326692	1	
42d	Circuit Breaker	325-44812-006	770057	2	
43	Fuse, Microfuse, 5 Amp,	025-34592-000	48817	3	*
44	Ribbon Cable YM Panel	031-01772-000	743825	1	18
45	Ribbon Cable YM Panel	031-01779-000	63158	1	19
46	Kit, Terminal Block TB7, YMC2	025-47579-000	5134682	1	19
47	Surge Suppressor	031-00808-000	618876	6	19
50	Fuse, Microfuse, 4 Amp	025-43368-000	837132	2	19
62	Wiring, Power Supply, Optview YMC2	571-06985-251	5134761	1	17
63	Cable Tie L=101.600Mm White	025-18167-000	588760	1	17
64	Wiring, Main Harness Optiview YMC2 Mod B	571-06986-241	5134762	1	17
66	Wiring Diagram, Optiview YMC2 Mod B	035-25054-000	5134731	1	*
67	Card, Sd Programmed, Optiview YMC2	031-03605-002	5134684	1	*
68	Fuse, 4A, 500V, 10X38mm, Iec	025-43736-000	740354	2	19
69	Clamp, Ferrite Sleeve Snap	025-34175-000	739022	1	19

NOTE: Items with an * are NOT represented.



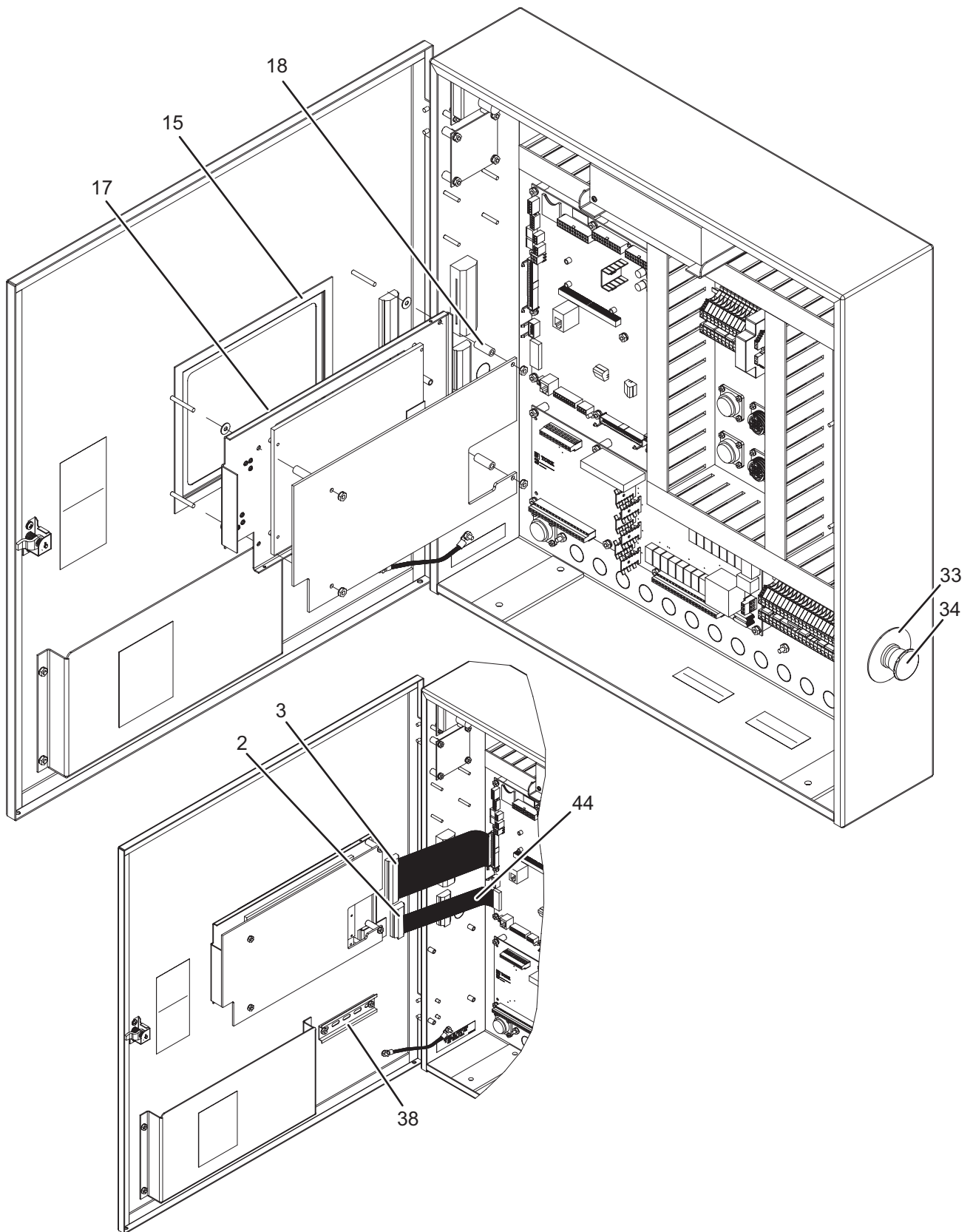
LD20368

FIGURE 16 - OPTIVIEW CONTROL PANEL



LD20369

FIGURE 17 - OPTIVIEW CONTROL PANEL



LD20370

FIGURE 18 - OPTIVIEW CONTROL PANEL

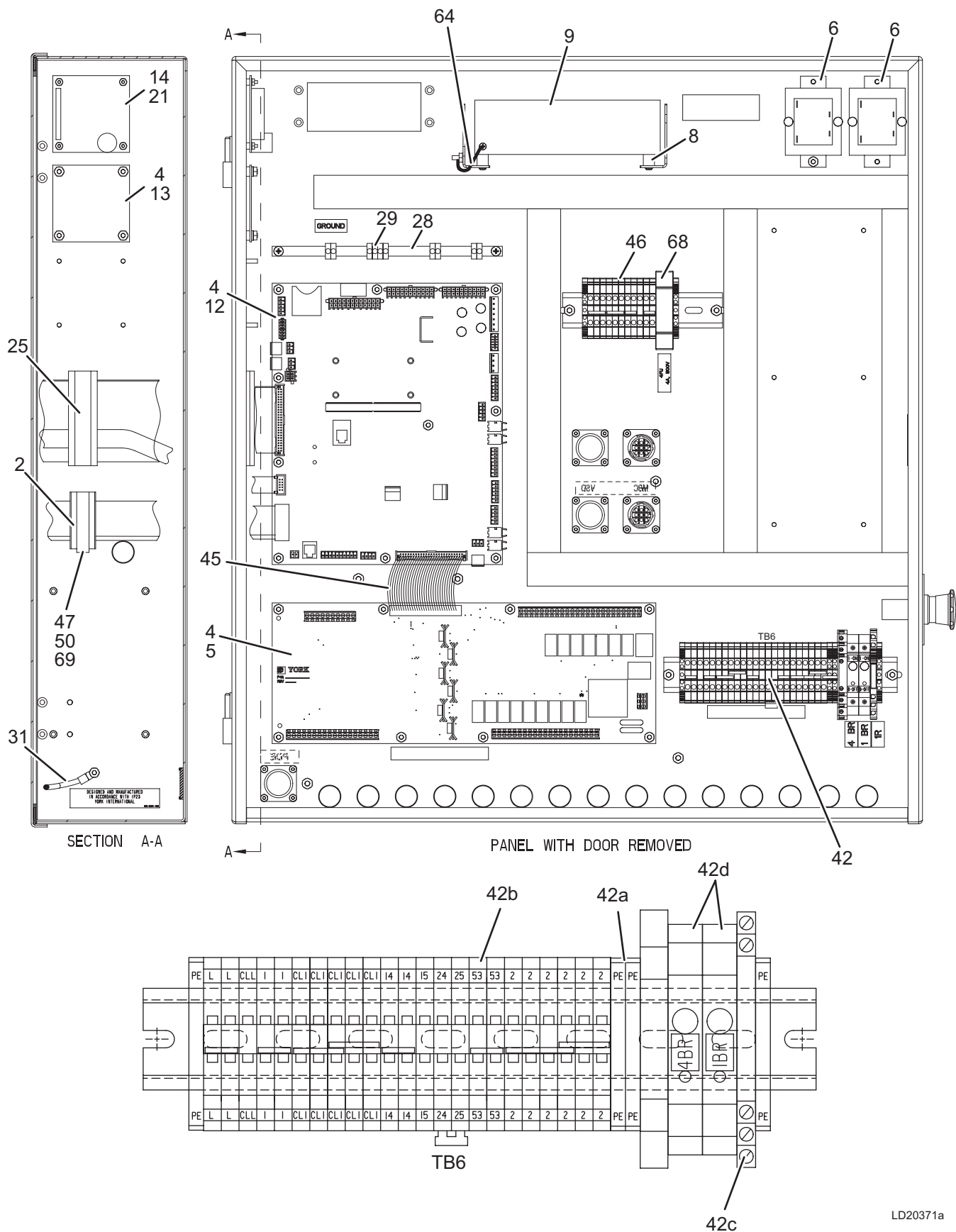


FIGURE 19 - OPTIVIEW CONTROL PANEL

TABLE 21 - SYSTEM WIRING

ITEM	DESCRIPTION	PART NUMBER	SAP	QUANTITY
1	Sensor Temp 3000 Ohms	025-29964-000	401192	5
2	Comp Heat Conductive 4 Oz	013-00898-000	616572	0.031
36	Sensor Level R-134A	025-46044-006	1051796	1
36A	Sensor Level R-513A	025-48615-006	5254142	1
37	Gasket, Seal 1 Od X 7/8 Id X	028-04836-000	62960	1
52	Sensor Flow 1/4" Npt Conn	025-43553-000	618247	2
55	O-Ring Hnbr 00.602Id .087Thk M	028-16398-018	710515	3
56	Sensor, Temp 50,000 Ohms Din	025-44007-000	740395	1
66	Well Thermo	026-32328-000	1467	4
70	Connector Plug Hsg, 2 Position	025-28951-000	62724	4
71	Contact Receptacle, 070 Series	025-28952-000	260	8
72	Collar Rubber, Black, 070	025-28950-000	65212	8
74	Contact Socket Mini Universal	025-28386-000	737925	3
82	Connector, Micro 5 Pole	025-42799-000	740141	2
114	Actuator, Electric	025-38180-000	59351	1
115	Pin Actuator Locator	075-52089-000	143122	1
118	Valve, Ball M18 1.5M X 1/2-20	022-12039-000	731481	1
119	Transducer, Pressure	025-28678-115	738190	1
120	O-Ring Neo1 00.414Id .072Thk M	028-12961-002	683003	2
121	Transducer Pressure	025-28678-006	246	1
122	Transducer Pressure R-22 & 134	025-40088-000	144689	1
130	Harness YMC2 M6 SS Optiview To MBC	392-41380-166	5184448	1
**	Connector Plug Hsg, 9 Pos	025-37872-000	739489	1
	Cont Pin 18-14 Awg	025-37874-000	117986	8
	Connector, Straight	025-45922-000	991366	1
	Contact Socket	025-45906-000	991351	8
	Cnd Elec Flex 1/2	025-12462-000	618079	14"
	Insert Module	025-45902-000	991347	1
	Connector, Rectangular	025-45901-000	991346	1
	Wire Elec 16 Awg Blk Per Aso	025-34004-000	738969	111"
	Connr. Conduit Flex Angle	025-37869-000	739488	1
134	Harness YMC2 M6 SS Optiview To VSD	392-41381-140	5184449	1
**	Connector Plug Hsg, 9 Pos	025-38172-000	118000	1
	Cont Soc Awg Wire Size 18-14	025-37875-000	739491	8
	Connr. Conduit Flex Angle	025-37869-000	739488	1
	Cont Pin 18-14 Awg	025-37874-000	117986	8
	Cnd Elec Flex 1/2	025-12462-000	618079	11.5
	Connr Conduit Flex Angle	025-41835-000	827630	1
	Connr Plug Hsg 19 Pos	025-44973-000	828161	1
	Wire Elec 18 Awg Black	025-08913-000	588753	35.5
	Wire Elec 14 Awg Blk Per Aso	025-34005-000	738970	35.5
	Wire Elec 14 Awg Grn/Yel Per	025-34027-000	738983	12"
	Wire Elec 14 Awg Wht Per Aso	025-34106-000	738994	12"

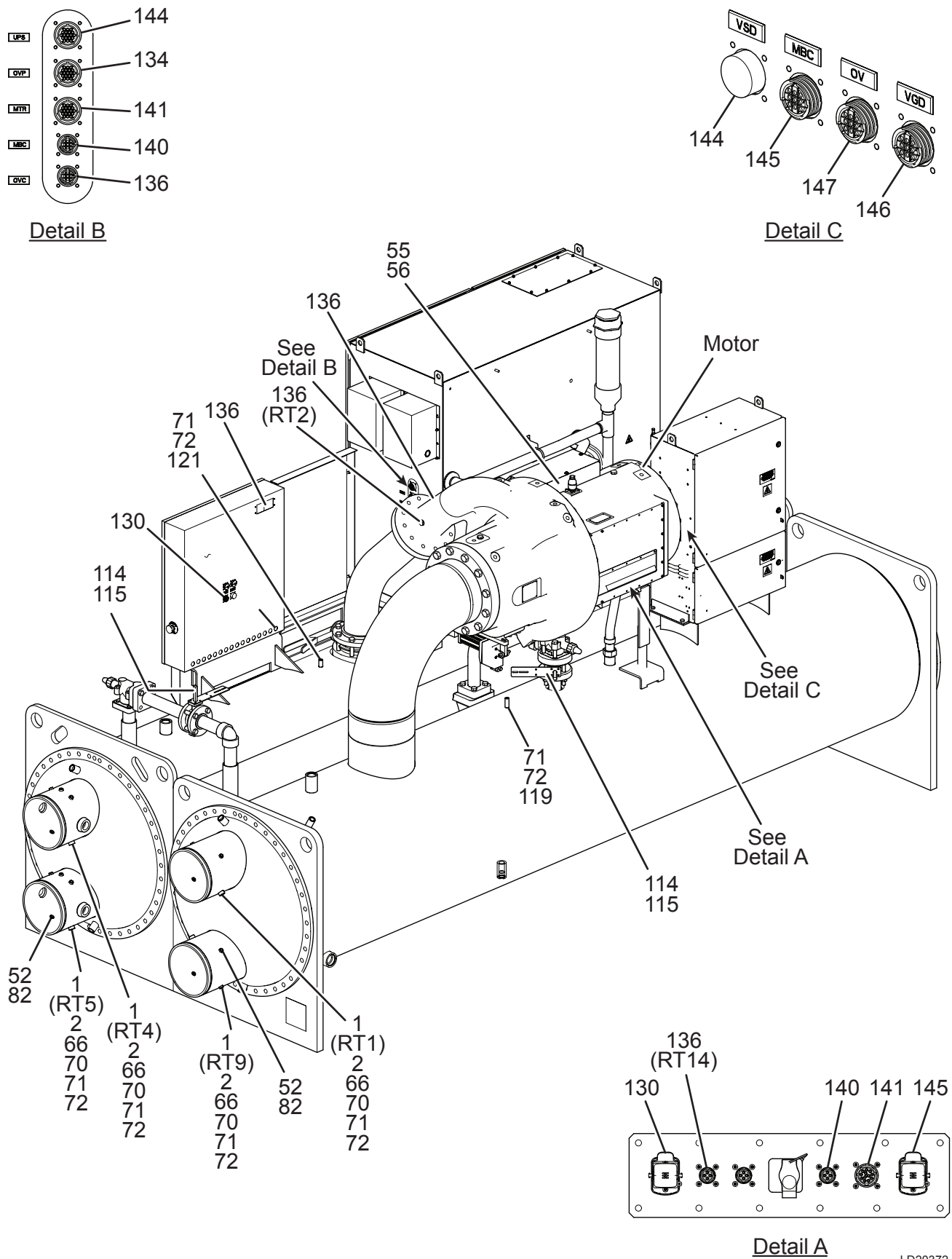
TABLE 21 - SYSTEM WIRING (CONT'D)

ITEM	DESCRIPTION	PART NUMBER	SAP	QUANTITY
136	Shielded Cable Assy YMC2 M6 SS	392-41389-410	5184455	1
140	Harness YMC2 M6 SS Motor Speed	392-41384-160	5184450	1
	Connector Housing For Data Connector	025-45917-000	991362	1
	Contact Socket	025-45920-000	991365	2
	Cable Clamp	025-45907-000	991352	1
	Wire 2-Condtr W/Foil Shield	025-28701-002	618114	13.34
	Flexible Cable Boot	025-44558-000	740537	1
	Internal Cable Grip	025-45732-000	911764	1
	Pin Contact 24-20 Awg Wire	025-40462-000	820625	3
	Connector Plug Hsg, 9 Pos	025-37872-000	739489	1
141	Harness YMC2 M6 SS Motor Stator Temp	392-41385-172	5184451	1
	Connector, Housing	025-45918-000	991363	1
	Contact Socket	025-45920-000	991365	12
	Cable Gland Dome Nut Unef CI 2A D=12.5Mm	025-46517-000	1074777	1
	Wire, Elec 12 Conductor	025-28387-000	737926	14.34
	Heat Shrink Boot Shell Size 23, Cable D	025-45550-000	5002310	0.5
	Pin Contact 24-20 Awg Wire	025-40462-000	820625	13
	Connr Plug Hsg 19 Pos	025-44973-000	828161	1
144	Harness YMC2 M6 SS VSD To PDE	392-41386-160	5184452	1
	Connr Plug Hsg 19 Pos	025-44973-000	828161	1
	Cont Pin 18-14 Awg	025-37874-000	117986	8
	Connr Conduit Flex Angle	025-41835-000	827630	1
	Cont Soc Awg Wire Size 18-14	025-37875-000	739491	8
	Cnd Elec Flex 1/2	025-12462-000	618079	13
	Connector Plug Hsg, 9 Pos	025-38172-000	118000	1
	Connr. Conduit Flex Angle	025-37869-000	739488	1
	Wire Elec 14 Awg Wht Per Aso	025-34106-000	738994	26.67
	Wire Elec 14 Awg Grn/Yel Per	025-34027-000	738983	13.34
	Wire Elec 14 Awg Blk Per Aso	025-34005-000	738970	66.67
145	Harness YMC2 M6 SS PDE To MBC	392-41387-106	5184453	1
	Connector Plug Hsg, 9 Pos	025-37872-000	739489	1
	Cont Pin 18-14 Awg	025-37874-000	117986	3
	Connr. Conduit Flex Angle	025-37869-000	739488	1
	Connector, Straight	025-45922-000	991366	1
	Contact Socket	025-45906-000	991351	3
	Cnd Elec Flex 1/2	025-12462-000	618079	8.5
	Insert Module	025-45902-000	991347	1
	Connector, Rectangular	025-45901-000	991346	1
	Wire Elec 16 Awg Red Per Aso	025-34018-000	738975	8.84
	Wire Elec 16 Awg Blk Per Aso	025-34004-000	738969	8.84
	Wire Elec 16 Awg Grn/Yel Per	025-34026-000	738982	8.84

TABLE 21 - SYSTEM WIRING (CONT'D)

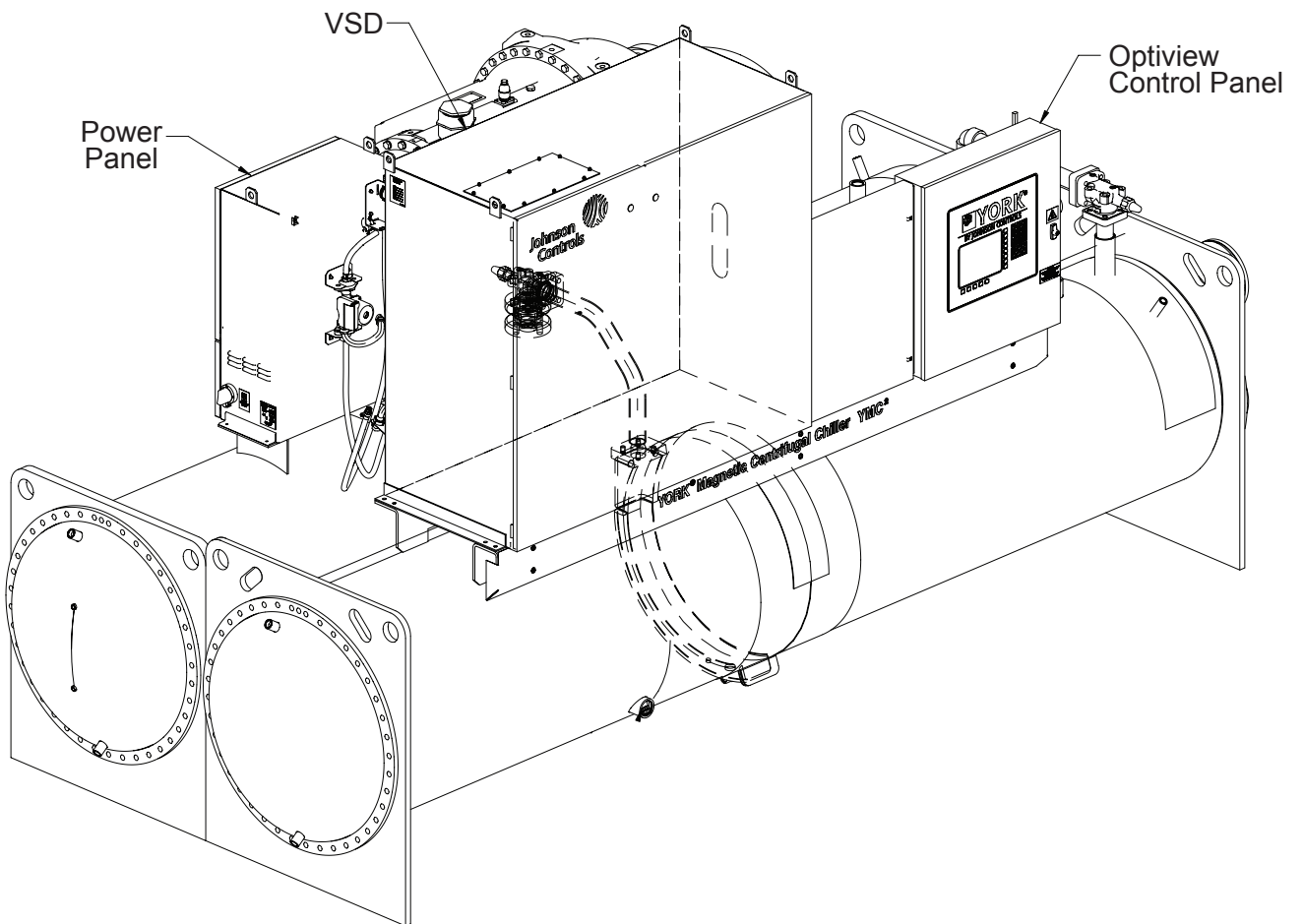
ITEM	DESCRIPTION	PART NUMBER	SAP	QUANTITY
146	Harness YMC2 M6 SS PDE To VGD	392-41388-138	5184454	1
	Connector Plug Hsg, 9 Pos	025-37872-000	739489	1
	Cont Pin 18-14 Awg	025-37874-000	117986	3
	Cable W=3 18Awg 600V Conductor Foil Cu	025-46347-000	1057017	11.5
	Part Type Contact, Socket	025-45346-000	844518	3
	Connector Housing 9 R=1 1.50mm	025-45347-000	844519	1
	Connr. Conduit Flex Angle	025-37867-000	739486	1
147	Harness YMC2 M6 SS PDE To Optiview	392-41379-148	5184447	1
	Cable Data W=8 24Awg Unshielded	025-46334-000	1055326	12.34
	Pin Contact 24-20 Awg Wire	025-40462-000	820625	5
	Socket Signal Contact	025-40463-000	873883	5
	Wire Elec 18 Awg Blk Per Aso	025-34003-000	738968	25.667
	Cont Pin 18-14 Awg	025-37874-000	117986	2
	Cont Soc Awg Wire Size 18-14	025-37875-000	739491	2
	Connector Plug Hsg, 9 Pos	025-37872-000	739489	1
	Connr. Conduit Flex Angle	025-37869-000	739488	1
	Cnd Elec Flex 1/2	025-12462-000	618079	12
	Connr. Conduit Flex Straight 1/2 Swivel	025-37868-000	739487	1
	Connector Plug Hsg, 9 Pos	025-38172-000	118000	1

** = Not part of the Harness Assembly.



LD20372

FIGURE 20 - POWER PANEL

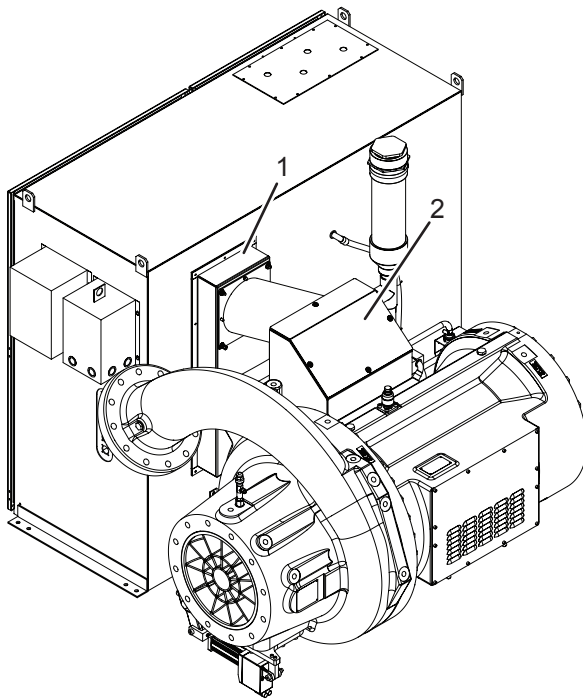


LD20373

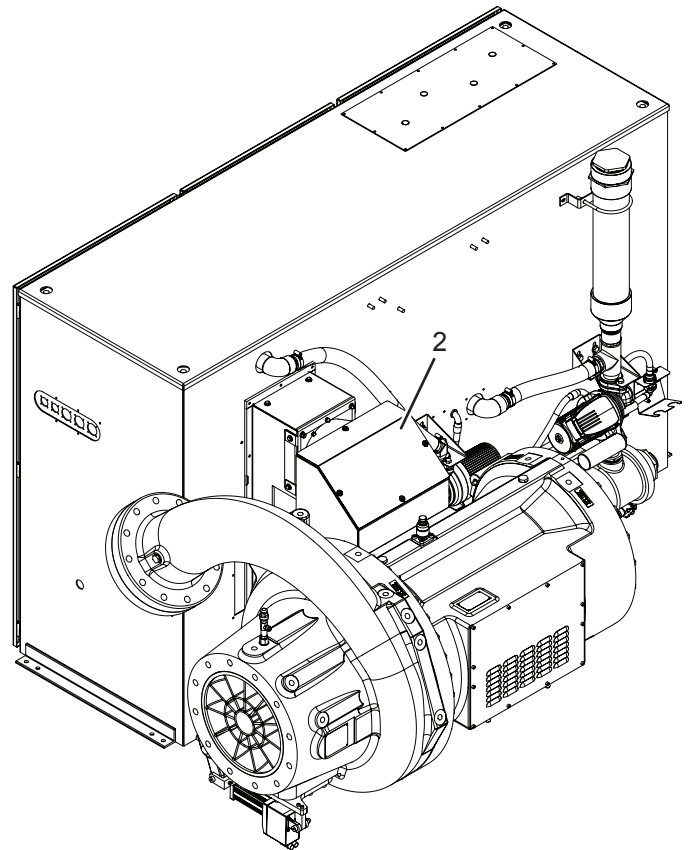
FIGURE 21 - POWER PANEL

TABLE 22 - MOTOR WIRING

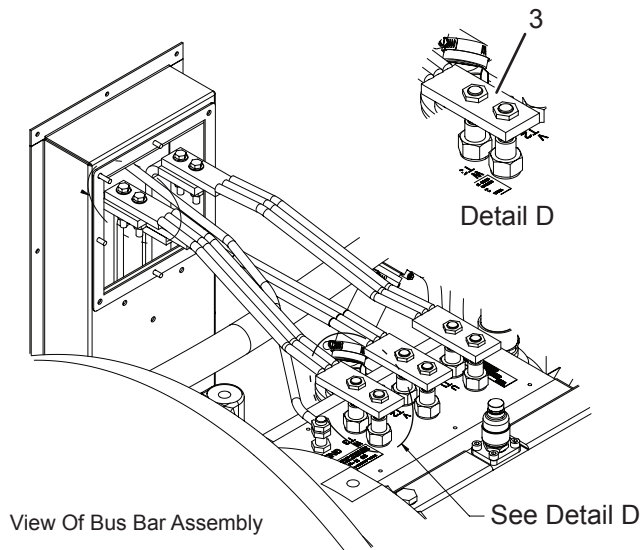
ITEM	VSD	SHELL LENGTH	DESCRIPTION	PART NUMBER	SAP	QUANTITY
1	0774	Both	Kit, Output Power Assy, 774A, M6 Chiller	371-05992-425	5166936	1
2	0774	12	Motor, Adapter Box YMC2 M6	371-06552-000	995668	1
		14		371-08045-000	5176239	1
	1278	14	Motor Adaptor Box, YMC2 M6	371-06552-002	5176236	1
3	0774	Both	Bar Flexible Bus YMC2 M6 SS 3 Wire	025-47747-000	5184426	3
	1278	14	Bar Flexible Bus YMC2 M6 SS 4 Wire	025-47746-000	5184425	3
8	Both	Both	HCS M6 X 1 X 16Mm Lg.	021-31205-016	730686	6



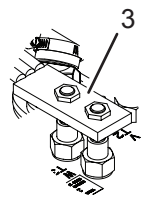
View Of YMC2, 774A VSD with Motor



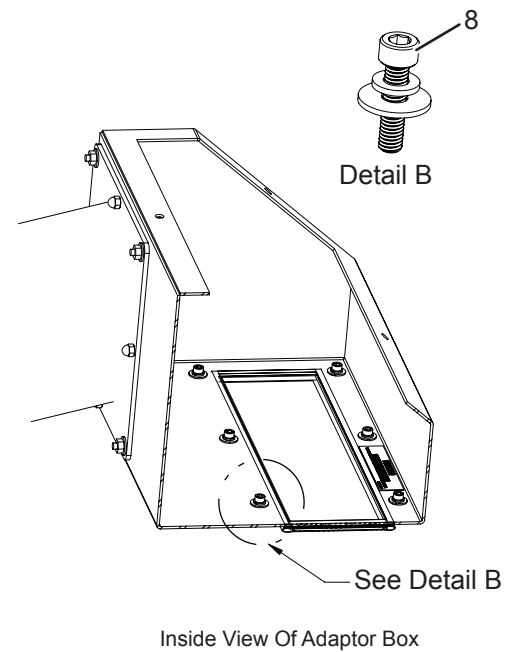
View Of YMC2, 1278A VSD with Motor



View Of Bus Bar Assembly



Detail D



Detail B

Inside View Of Adaptor Box

LD20374

FIGURE 22 - MOTOR WIRING

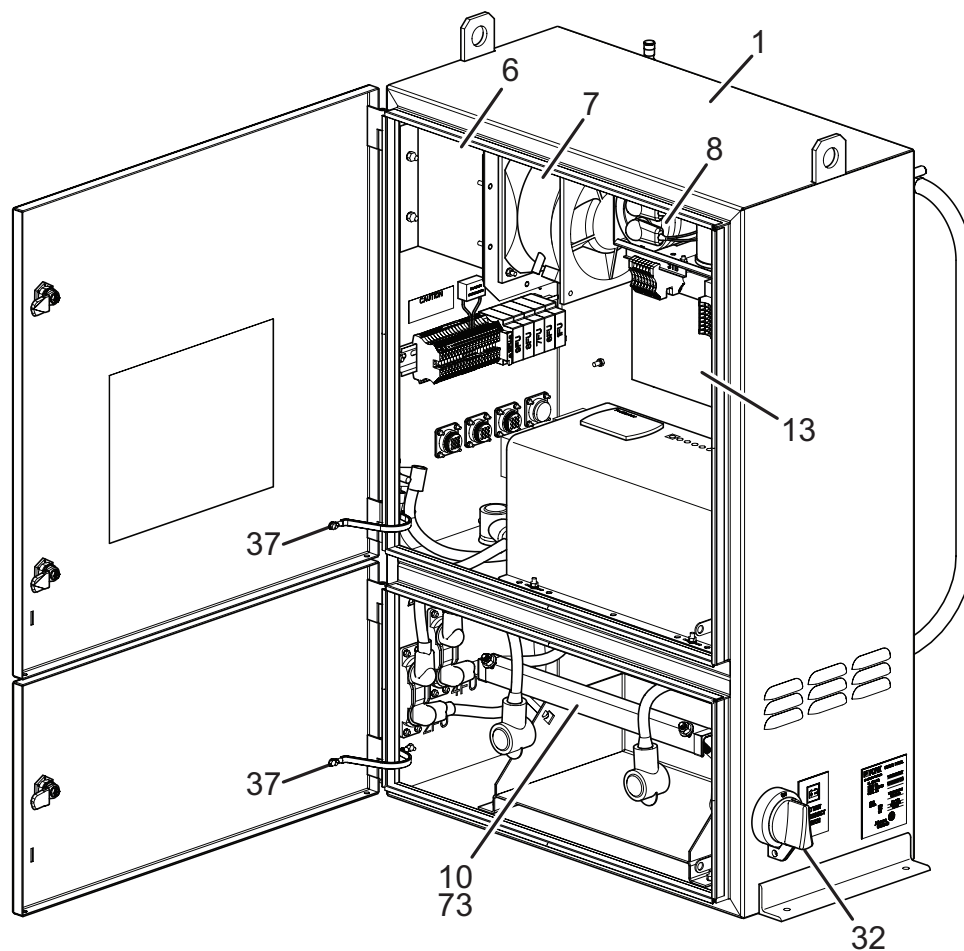
TABLE 23 - POWER PANEL

ITEM	DESCRIPTION	PART NUMBER	SAP	QUANTITY	FIGURE
1	Enclosure, Power Panel	371-06729-006	1163812	1	23
	Enclosure, Power Panel	371-06731-000	1163820	1	
	Door Assembly	371-06734-000	1163823	1	
	Door Assembly	371-06735-000	1163824	1	
	Support, Battery	071-06706-000	1163795	1	
	Pump, Bracket	071-06195-000	864418	2	
2	VGD, Power Supply	371-06625-000	1055349	1	24
3	UPS, Remote Panel Re-Location	225-45372-000	1055335	1	24
4	Flange Set Scr Oval 3/4" Npt	023-25592-000	864397	1	24
5	Pump Centrif Incl Mot 1.9M3/H 115V Ac 3P	026-46982-000	864408	1	24
6	Coil	026-46983-000	864409	1	23
7	Fan, Cooling 115V, 70W 330 Cfm	025-32557-000	738735	1	23
8	LC Filter, YMC2 Power Panel	371-06694-000	1163808	1	23
8a	Heat Exchanger Pad	028-13171-003	741768	2	25
8b	Capacitor, Buss, 450V, 12,000	025-39573-000	739673	1	25
8c	Inductor	025-45488-000	864403	1	25
8d	Diode	031-03425-000	864412	1	25
8e	Resistor	025-45496-000	864404	1	25
8f	Resistor, Power Wirewound	025-45705-000	913185	1	25
8g	Terminal Block Kit	325-46011-000	994276	1	25
9	Adapter Barb 0.500 In Npt(M) 0.75 In	023-25591-000	864396	2	24
10	Bolt, Hold Down 5/16-18 X 5-7/8 Lg.	023-26154-000	1055316	2	24
13	MBC Power Supply	025-45926-000	926915	1	23
15	Adapter Comp 0.500In Nptf(F) 0.500In	023-25589-000	864394	1	24
16	Adapter Barb 0.500In Npt(M) 0.750In	023-25590-000	864395	2	24
17	Plate Adapter, Fan Mounting	371-06196-000	864432	1	24
18	Bushing, Pwr Copper Core (Red)	025-45991-000	993789	1	24
19	Bushing, Pwr Copper Core (Blk)	025-45992-000	993790	1	24
21	Mega Fuse Holder (Red)	025-45984-000	993782	1	24
22	Mega Fuse Holder (Black)	025-45985-000	993783	1	24
23	Fuse Type=Mega 175.00A 32V None	025-47436-000	5007265	2	24
25	Grommet 0.475 Id X 1.5625 Od	028-04805-000	2181	2	24
27	Hose Pvc Id=0.500In Clear	028-16692-000	864411	10	24
29	Clamp Hose 11/16 Min. Dia, X 1-1/4 Max Dia	023-08856-000	617439	7	24
30	Adapter Barb 0.500In Pres 0.500In Polys	022-12384-000	864392	1	24
31	Valved Shut Off Conn 1/2Hose Brb Inline	022-12385-000	864393	1	24
32	Switch, Battery Disconnect	025-45993-000	993811	1	23
33	Adapter Comp 0.500In Nptf(M) 0.500In	023-25637-000	864398	1	24
34	Tee, Right Angle Reducing	023-26160-000	1055317	1	24
35	Schrader Housing	022-12666-000	1055315	1	24
37	Strap Grounding	025-32505-001	738720	2	23
38	Kit, Terminal Block YMC2	325-46327-000	1055336	1	24
41	Connr Cnd Flex Ang 1/2	025-33912-000	738931	1	24
47	Connr Cnd Flex Str 1/2	025-33916-000	738935	1	24
48	Cnd Elec Flex 1/2	025-12462-000	618079	1.2	24
55	Fuse Type=Wire 2.00A 250V GI	025-46332-000	1055324	1	24

TABLE 23 - POWER PANEL (CONT'D)

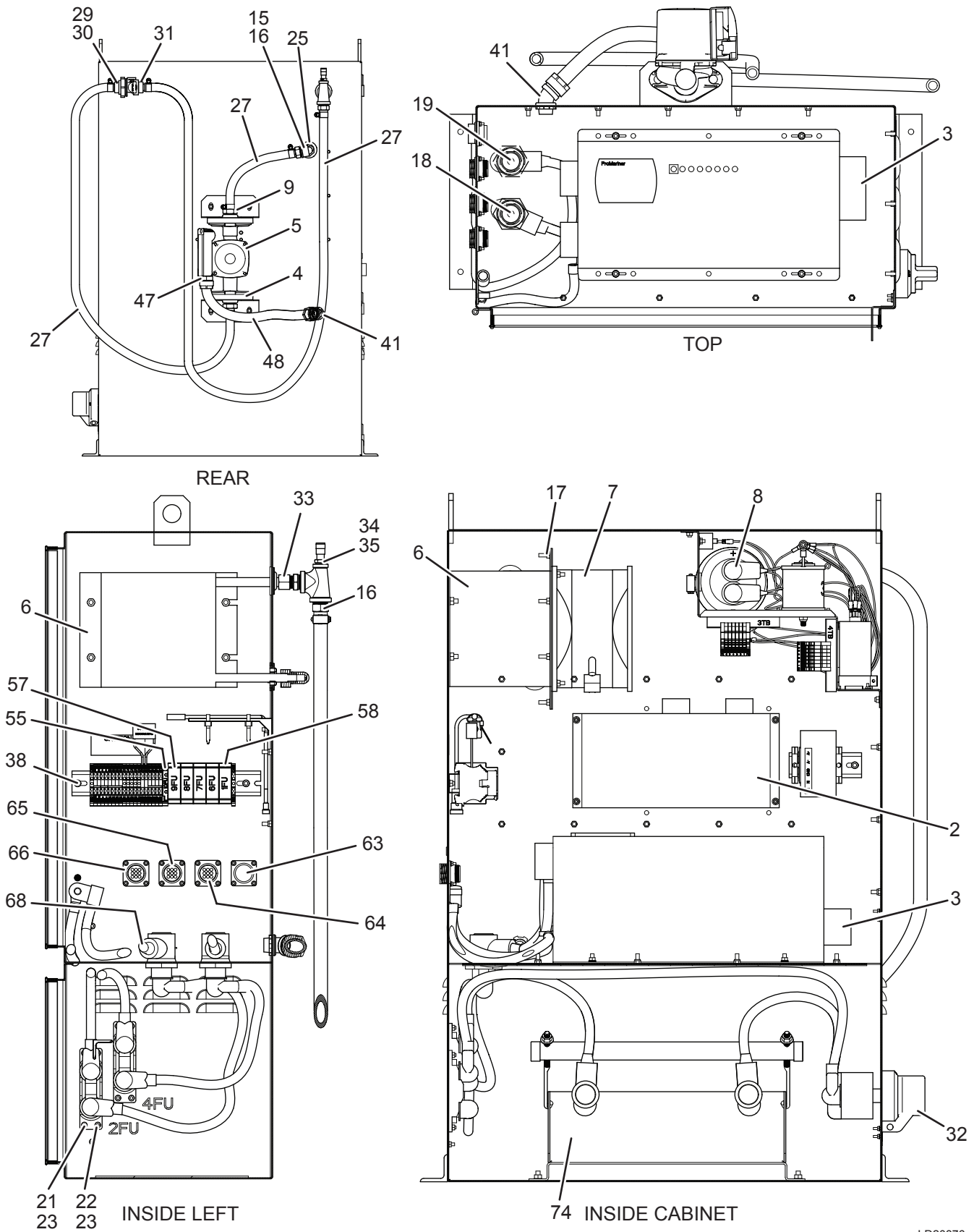
ITEM	DESCRIPTION	PART NUMBER	SAP	QUANTITY	FIGURE
57	Fuse, Cartridge Ty 6A	025-34135-000	117646	2	24
58	Fuse, Cartridge Type 20 Amp	025-34142-000	739009	3	24
63	Harness, VSD	371-06730-231	1163815	1	24
	Connector Recp Hsg, 9 Pos	025-38171-000	117999	1	
64	Harness, MBC	371-06730-232	1163816	1	24
	Connector Recp Hsg, 9 Pos	025-37873-000	739490	1	
65	Harness, VGD	371-06730-233	1163817	1	24
	Connector Recp Hsg, 9 Pos	025-37873-000	739490	1	
66	Harness, OV	371-06730-234	1163818	1	24
	Connector Recp Hsg, 9 Pos	025-37873-000	739490	1	
68	Harness, Power Panel	371-06730-241	1163819	1	24
	Power Cord	025-46671-000	1100848	2	
73	Bar, Battery Hold Down	371-06624-000	1055348	1	23
	Support, Angle Battery	071-06616-000	1055333	1	
	Cap, Angle	028-16791-000	1055329	2	
74	Battery	025-45516-000	864405	1	24

NOTE: Items with an * are NOT represented.



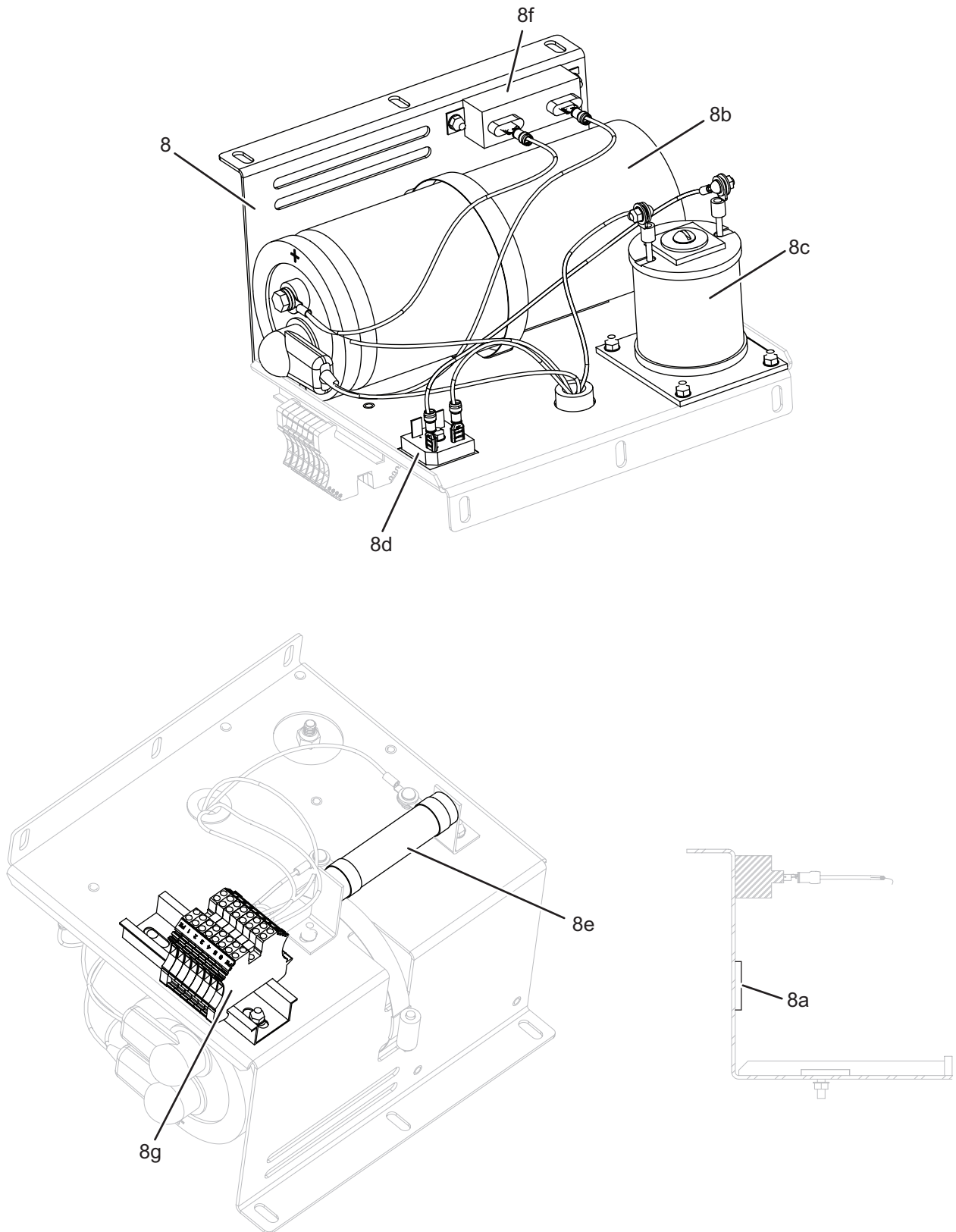
LD20375

FIGURE 23 - POWER PANEL



LD20376

FIGURE 24 - POWER PANEL



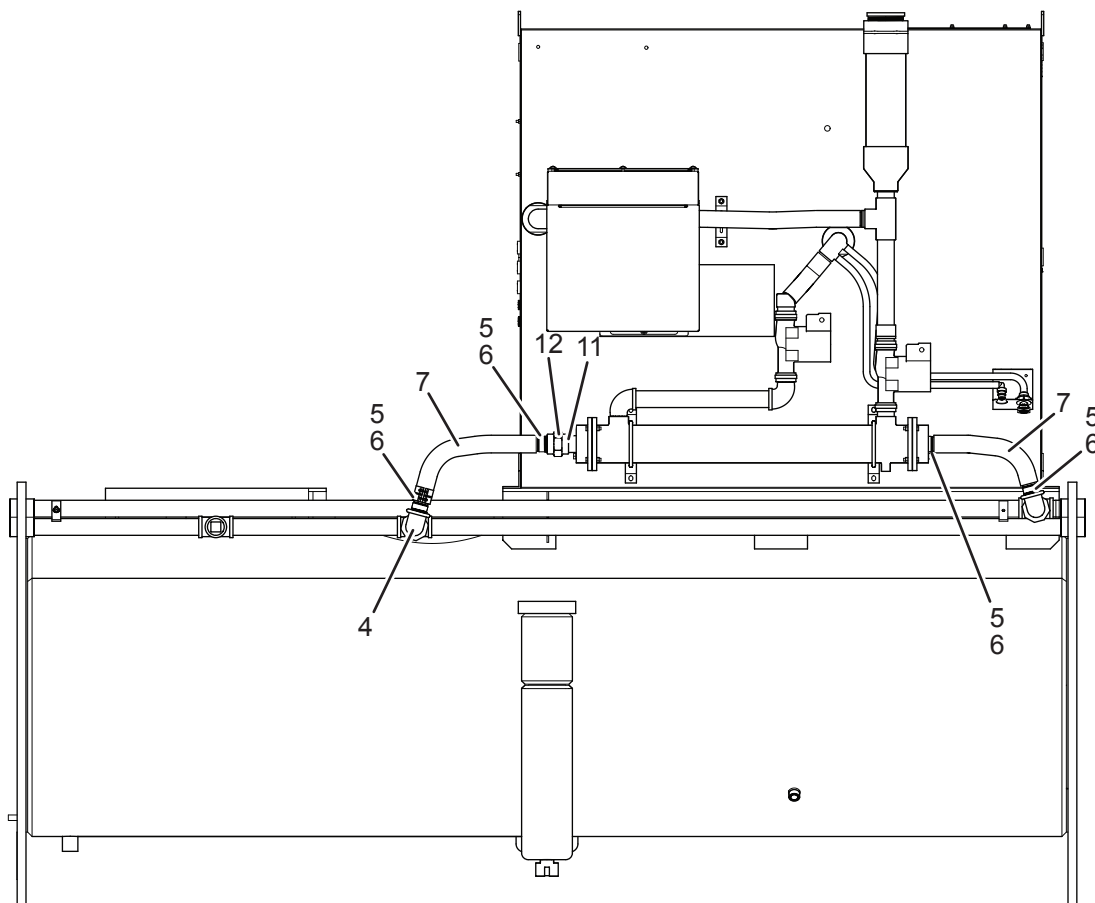
LD20555

FIGURE 25 - POWER PANEL

TABLE 24 - VSD INSTALLATION KIT

ITEM	DESCRIPTION	PART NUMBER	SAP	QUANTITY	FIGURE
4	Union, Elbow 1-1/2 M / F	023-25181-000	734137	1	26, 27
	Elbow Screw 1-1/2 Npti 90	023-01648-000	617255	1	
5	Adapter Combination 1-1/2 Mpt	023-20295-000	60699	4	26, 27
6	Clamp T-Bolt 49 - 55Mm SS	021-33931-000	1173967	4	26, 27
	Clamp Hose 1-25/32 Min Dia	021-30656-000	60683	8	
7	Hose Uhmwpe Id=1.500In Green/Yellow	028-16840-000	1173968	5	26, 27
	Hose, 300 Psi, 1-1/2 Id X 2-1/64 To	028-16394-000	618770	5	
11	Nipple Pipe 1-1/2 Sch 80 X 2Lg	023-24321-000	733909	1	26, 27
12	Union Scr 1-1/2 Npti Grd	023-17625-000	146679	1	26, 27
13	Separator W/1-1/2 Npti Conn's	022-11774-000	514984	1	27
16	Nipple Pipe 1-1/2 Sch 40 X	023-16920-000	146332	1	27
17	Valve, Ball 2-Way	022-12399-000	947520	1	27

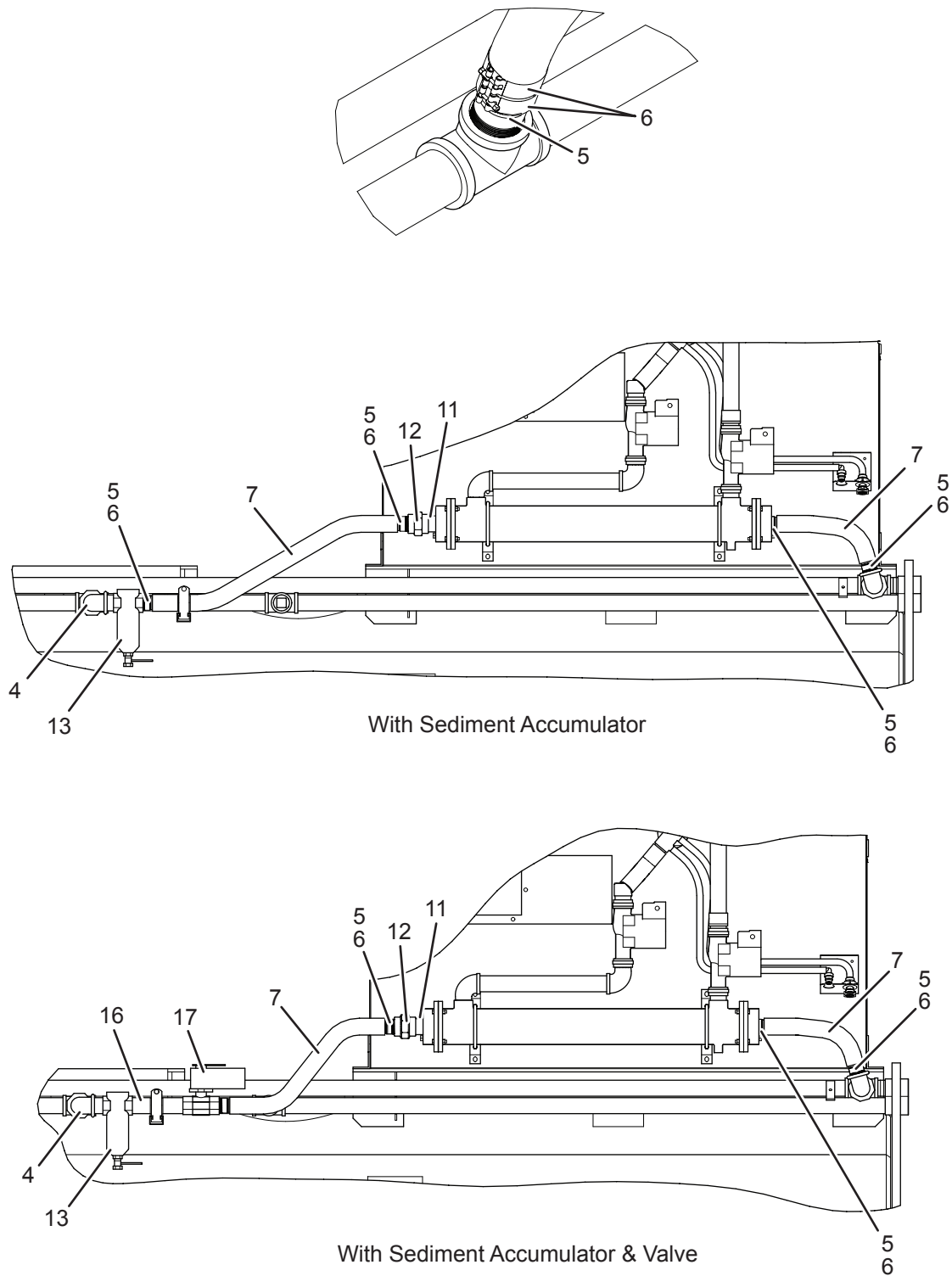
NOTE: Items with an * are NOT represented.



Without Sediment Accumulator Shipment

LD17619

FIGURE 26 - VSD INSTALLATION KIT



LD20458

FIGURE 27 - VSD INSTALLATION KIT

TABLE 25 - VSD WATER PIPING

ITEM	CONDENSER LENGTH	DESCRIPTION	PART NUMBER	SAP	QUANTITY	FIGURE
1	12'	Nipple Pipe 1-1/2 Sch 40 X 145 Lg	092-41224-000	5184670	1	28
	14'		092-41225-000	5184671	1	
2	Both	Nipple Pipe 1-1/2 Sch	092-11496-000	947527	1	28
3	12'	Nipple Pipe 1-1/2 Sch 40 X 85 Lg	092-41223-000	5184669	1	28
	14'		092-11505-000	947530	1	
4	Both	Tee Screw 1-1/2 X 1-1/2 X	023-04265-000	617368	3	28
10	Both	Cplg Pipe 1-1/2 Api Merchant	023-25216-000	659863	3	28
24	Both	Nipple Pipe 1-1/2 Sch 40 X 32-7/8 Lg	092-41222-000	5184668	1	28
25	Both	Union, Elbow 1-1/2 M / F	023-25181-000	734137	1	28

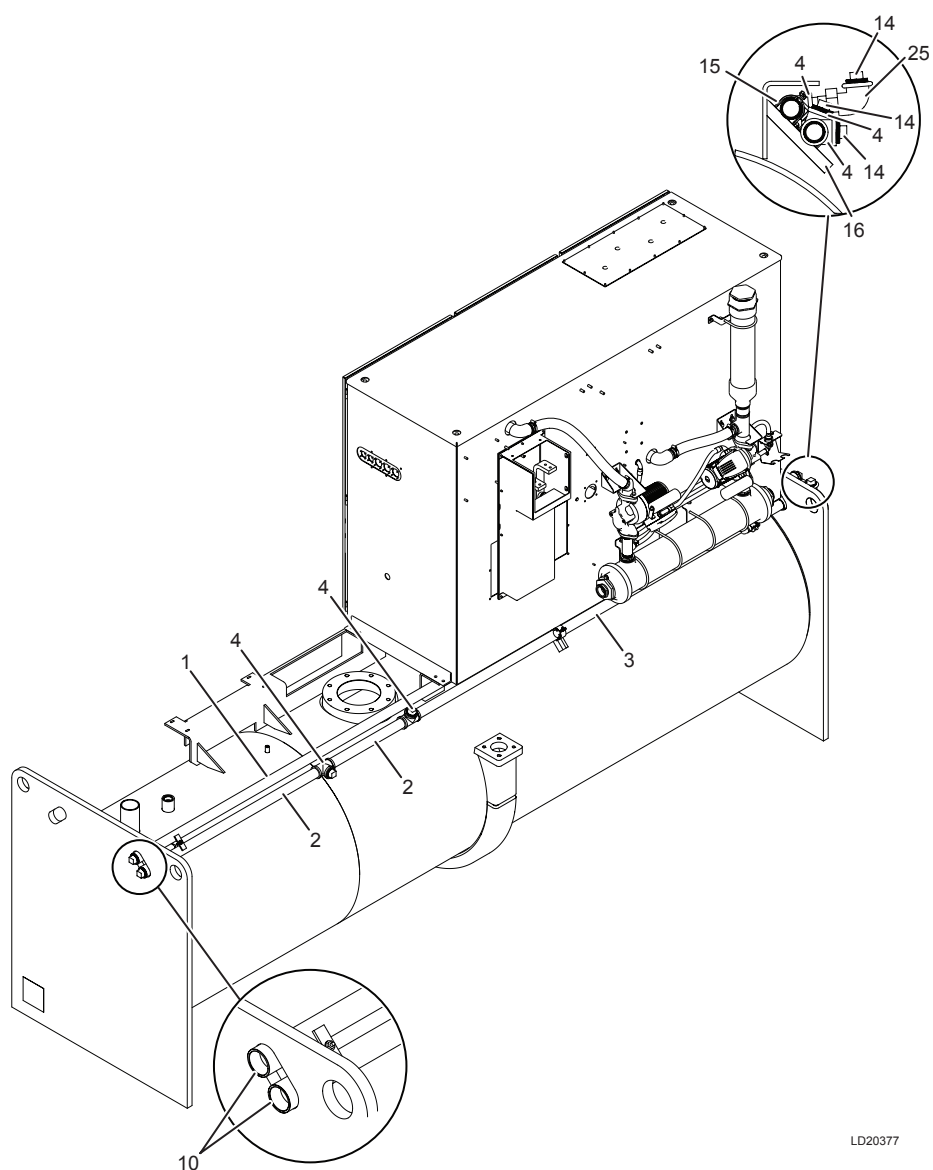
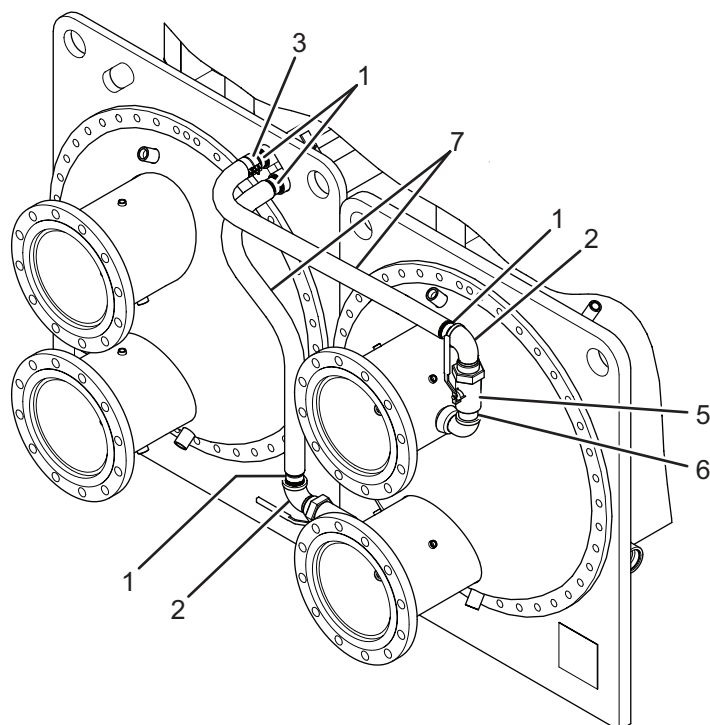


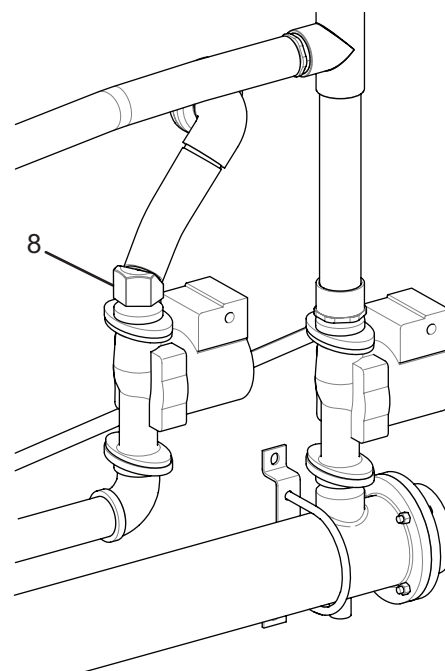
FIGURE 28 - VSD WATER PIPING

TABLE 26 - VSD COOLING KIT

CONDENSER					
ITEM	DESCRIPTION	PART NUMBER	SAP	QUANTITY	FIGURE
1	Adapter Combination 1-1/2 Mpt	023-20295-000	60699	4	29
	Adapter Combination 1-1/2 Mpt (Marine)	023-20295-000	60699	2	
2	Elbow Screw Street 1-1/2 Npti	023-17785-000	617581	2	29
3	Clamp Hose 1-25/32 Min Dia	021-30656-000	60683	8	29
5	Valve Ball 1-1/2 Npte	022-11919-000	617143	2	29
	Single Union End Ball Valve With Hinges	022-12050-000	635613	2	
6	Nipple Pipe 1-1/2 Sch 80 X 2Lg With Hinges	023-24321-000	733909	2	29
7	Hose, 300 Psi, 1-1/2 Id X 2-1/64 To	028-16394-000	618770	4.5'	29
	Hose, 300 Psi, 1-1/2 Id X 2-1/64 To (Marine)			5'	
8	Adapter, 45 Deg Elbow, 1-1/2" Hb-Mp	028-16559-000	839776	2	29
EVAPORATOR					
ITEM	DESCRIPTION	PART NUMBER	SAP	QUANTITY	FIGURE
1	Adapter Combination 1-1/2 Mpt	023-20295-000	60699	4	29
2	Elbow Screw Street 1-1/2 Npti	023-17785-000	617581	2	29
3	Clamp Hose 1-25/32 Min Dia	021-30656-000	60683	8	29
5	Valve Ball 1-1/2 Npte	022-11919-000	617143	2	29
	Single Union End Ball Valve With Hinges	022-12050-000	635613	2	
6	Nipple Pipe 1-1/2 Sch 80 X 2Lg With Hinges	023-24321-000	733909	2	29
7	Hose, 300 Psi, 1-1/2 Id X 2-1/64 To	028-16394-000	618770	6'	29
8	Adapter, 45 Deg Elbow, 1-1/2" Hb-Mp	028-16559-000	839776	1	29



NOTE:
EVAPORATOR SIDE SHOWN



BACK OF VSD

LD17496

FIGURE 29 - VSD COOLING KIT

TABLE 27 - EVAPORATOR VSD COUPLING KIT

EVAP CODE	EVAPORATOR PASS	NOZZLE SIZE	COMPACT	MARINE
EC33, EC39	1	16"	023-24950-000	
	2	12"	023-24949-000	023-20864-000
	3	10"		

TABLE 28 - NEOPRENE ISOLATORS

SYSTEM OPERATING WEIGHT		PART NUMBER (INCLUDES QUANTITY OF 4 PADS)	PAD SIZE
KILOGRAMS	POUNDS		
Up to 7,423	Up to 16,365	028-14462-000	5.5" x 5.5" (14 x 14 cm)
7,424 to 13,107	16,366 to 28,835	028-14459-000	7" x 5.5" (23 x 14 cm)
13,108 to 24,332	28,836 to 53,530	028-14460-000	9" x 7" (23 x 18 cm)
24,333 to 45,666	53,531 to 100,464	028-14461-000	11" x 10" (28 x 25 cm)

TABLE 29 - SPRING ISOLATORS

SYSTEM OPERATING WEIGHT		PART NUMBER (INCLUDES QTY. 4 SPRING BOLTS)	QUANTITY (NUMBER OF MOUNTS PER PACKAGE)
KILOGRAMS	POUNDS		
4,536 to 8,873	10,000 to 19,563	029-23716-000	4
8,874 to 11,093	19,564 to 24,457	029-21793-000	4
11,094 to 13,982	24,458 to 30,826	029-21376-000	4
13,983 to 15,880	30,827 to 35,009	029-20933-000	4
15,881 to 20,974	35,010 to 46,239	029-20934-000	4
20,975 to 26,467	46,240 to 58,349	029-20935-000	4

TABLE 30 - BATTERY ASSEMBLY (392-47540-000)

ITEM	CODE	LOCATION ORIGIN	LOCATION TERMINATION	DESCRIPTION	PART NUMBER	SAP	FIGURE
1+	BAT1+	UPS Battery +	Red feed thru	Battery Cable	392-47541-000	5275966	30
1-	BAT1-	UPS Battery -	Black feed thru	Battery Cable	392-47542-000	5275967	30
2+	BAT2+	Red feed thru	2FU on side wall (lower)	Battery Cable	392-47543-000	5275968	30
2-	BAT2-	Black feed thru	4FU on side wall (lower)	Battery Cable	392-47544-000	5275969	30
3+	BAT3+	Disconnect Sw	2FU on side wall (upper)	Battery Cable	392-47545-000	5275990	30
3-	BAT3-	Battery Neg. post	4FU on side wall (upper)	Battery Cable	392-47546-000	5275991	30
4+	BAT4+	Disconnect SW	Battery POS post	Battery Cable	392-47547-000	5275992	30
5-	BAT5-	Ground Stud	Black feed thru	Battery Cable	392-47548-000	5275993	30
6				Bushing, PWR (Red)	025-45991-000	993789	30
7				Bushing, PWR (Blk)	025-45992-000	993790	30
8				Battery Hold Down Bar	371-06624-000	1055348	30
9				Bolt, Hold Down, W/ Nut and Washer	023-26154-000	1055316	30

FIGURE 30 - BATTERY ASSEMBLY

TABLE 31 - SEQUENCING KIT (TWO UNIT)

TWO UNIT (466-61597-000)			
ITEM	DESCRIPTION	PART NUMBER	QUANTITY
1 ¹	Controller, RWT	025-15154-000	1
2	Relay, Time Delay	024-30497-000	1
3	Switch, Toggle	024-14057-000	1

¹ Not Shown. Remote Mounted.

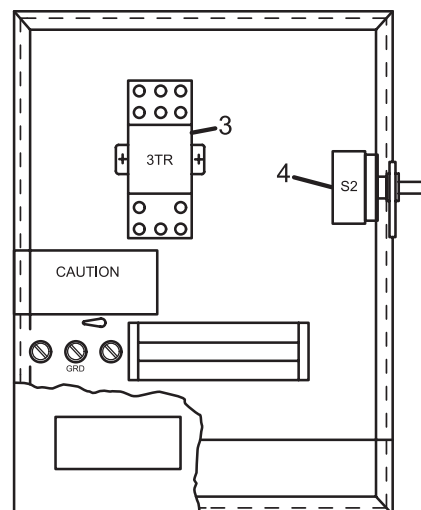


TABLE 32 - SEQUENCING KIT (THREE UNIT)

THREE UNIT (366-44684-000)			
ITEM	DESCRIPTION	PART NUMBER	QUANTITY
2	Control, Temp 2 Stage	025-10215-000	1
3	Relay, TD 115V	024-30497-000	2
4	Relay, Control 120V Coil	024-14519-000	2
5	Relay Assy.	375-21706-000	1
8	Switch, Toggle 3 Position	024-17026-000	1
18	Switch, Toggle	024-11736-000	1

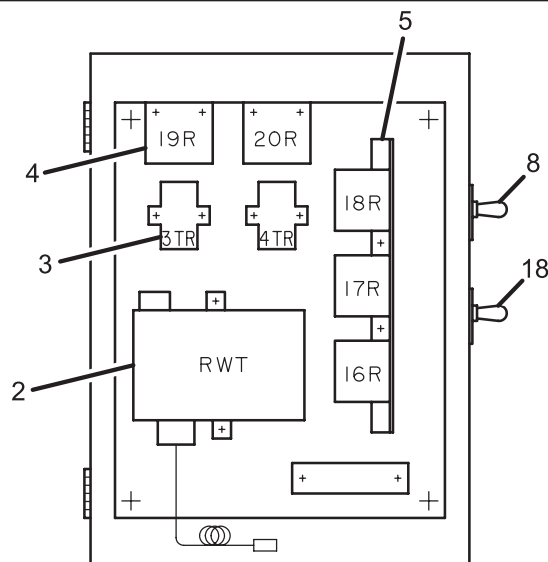


TABLE 33 - SEQUENCING KIT (FOUR UNIT)

FOUR UNIT (366-52529-000)			
ITEM	DESCRIPTION	PART NUMBER	QUANTITY
2	Control, Temp. 3-Stage	025-10214-000	1
3	Relay, TD 115V	024-30497-000	3
4	Relay Assy.	375-21706-000	1
5	Relay, Control 120V Coil	024-14519-000	8
8	Switch, Toggle	024-11736-000	1
11	Switch, Rotary 4 Ckt 15A	024-20494-000	1

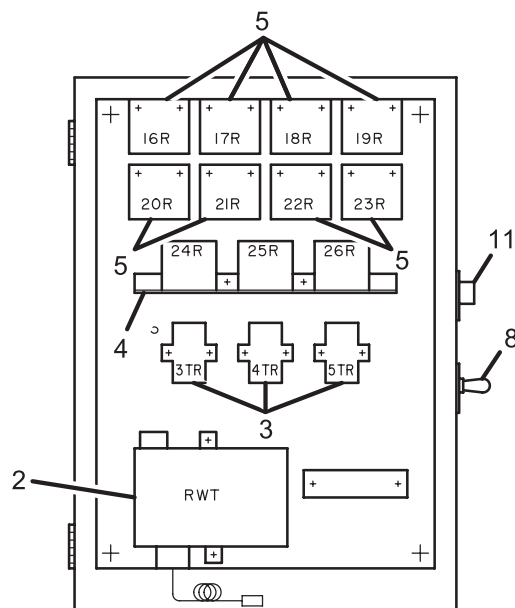


TABLE 34 - TOUCH-UP PAINTS

DESCRIPTION	PART NUMBER
Enamel, Caribbean Blue Color	013-02510-000
Enamel Caribbean Blue	013-01835-000
Primer, Gray Water Base Epoxy	013-02834-000

TABLE 35 - FLOW CONTROL SWITCH

DESCRIPTION	PART NUMBER
150 DWP	024-26116-000
300 DWP	024-12144-000

TABLE 36 - CONSUMABLES

DESCRIPTION	PART NUMBER	SAP
Adhesive, 5 Oz Tube 3M Scotch	013-00995-000	616573
Adhesive, Scotch Grip 1357	013-02297-000	616579
Compound, Heat Conductive 4 Oz	013-00898-000	616572
Grease, POE	044-03199-000	120466
Insulation, Therm 3/4" Thick Class 2	010-04198-000	686474
Insulation, Therm 2-1/2 Id X 3/4 Wall	010-05999-000	686103
Insulation, Therm 2-7/8 Id X 3/4 Wall	010-03802-000	686097
Insulation, Therm 3/4 Id X 3/4	010-03801-000	728793
Lub, Valve Stem 2oz.	360-00125-000	590071
Primer, Locquic Grade N Loctite	013-01753-000	588485
Sealer, Grade AVV Loctite 086	013-01671-000	588483
Sealer, Loctite Removable Thread	013-01678-000	588484
Tape, Ins Thermal 50 Wide 3 Thk	010-07200-000	728852

TABLE 37 - SERVICE TOOL KITS

ITEM	DESCRIPTION	PART NUMBER	SAP
1	TE/Connectivity Crimper Tool	025-46350-000	1068258
2	TE/Connectivity Extraction Tool	025-46351-000	1068259
3	SOURIAU CRIMPER TOOL KIT	392-17632-001	-
	Souriau Crimper Tool	025-46352-000	1068260
	Souriau Crimp Head	025-46353-000	1068281
4	Souriau Extraction Tool	025-46354-000	1068282
5	Weidmuller Crimper Tool	025-46355-000	1068283
6	Weidmuller Extraction Tool	025-46356-000	1068284
7	INTERCONNECT CRIMPER TOOL KIT	392-17632-002	-
	Interconnect Crimper Tool	025-46357-000	1068285
	Interconnect Position Insert	025-46358-000	1068286
	Interconnect Assembly Tool	025-46359-000	1068287



5000 Renaissance Drive, New Freedom, Pennsylvania USA 17349
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Form 160.84-RP2 (622)
Issue Date: June 10, 2022
Supersedes: 160.84-RP2 (817)

1-800-524-1330
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