



CENTRIFUGAL LIQUID CHILLER

REPLACEMENT PARTS

Supersedes: 161.01-RP1 (119)

Form 161.01-RP1 (622)

YZ MOD A MAGNETIC BEARING CENTRIFUGAL LIQUID CHILLERS



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:



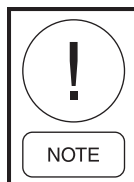
Indicates a possible hazardous situation which will result in death or serious injury if proper care is not taken.



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.

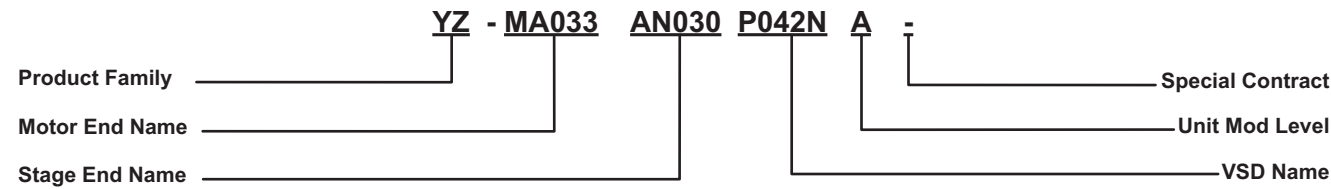
AFFECTED PAGES	DESCRIPTION
72	Corrected part number 013-02987-000 to 013-04129-000

ASSOCIATED LITERATURE

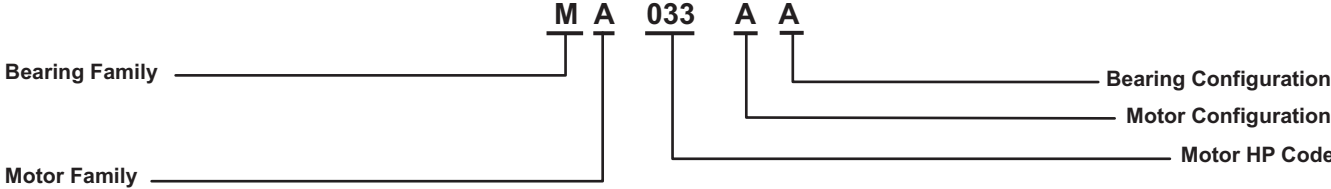
MANUAL DESCRIPTION	FORM NUMBER
Unit Installation Checklist	161.01-CL1
Unit Startup Checklist	161.01-CL2
Liquid Chiller Log Sheet	161.01-MR1
Installation and Reassembly	161.01-N1
Chiller Operations & Maintenance	161.01-OM1
Field Connections Diagram - Water Pump Starters	161.01-PW1
Field Control, Modifications	161.01-PW2
Field Connections Diagram	161.01-PW3
Wiring Diagram, Unit	161.01-PW4
Centrifugal Chiller Long Term Storage	50.20-NM5
All Products - Replacement Parts Electrical Connectors	50.20-RP1
All Products - Replacement Parts Fittings	50.20-RP2

NOMENCLATURE

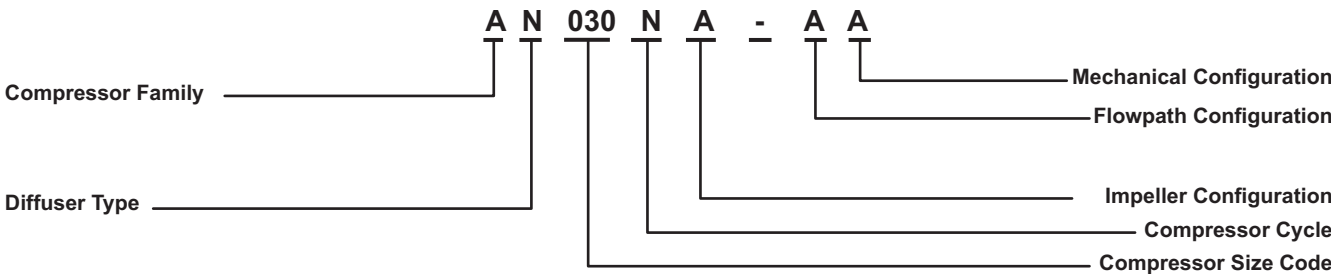
SYSTEM NOMENCLATURE



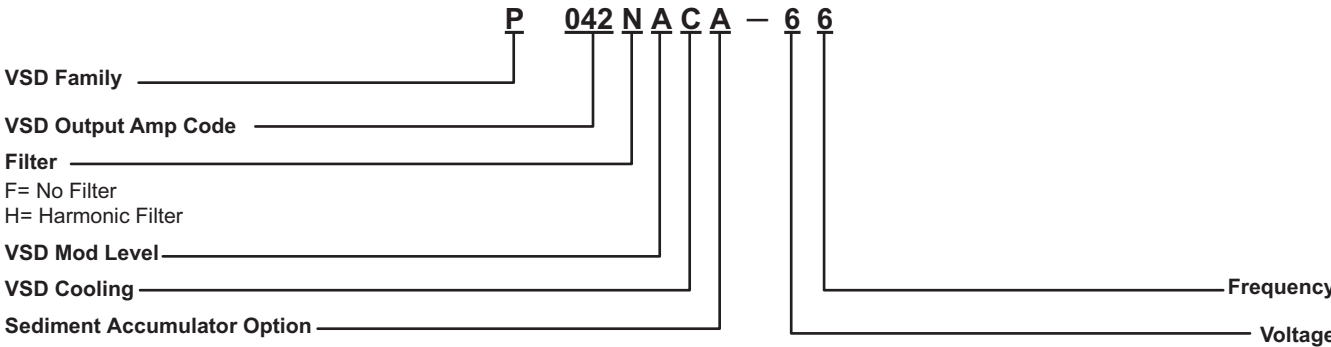
MOTOR END NAMING



STAGE END NAMING

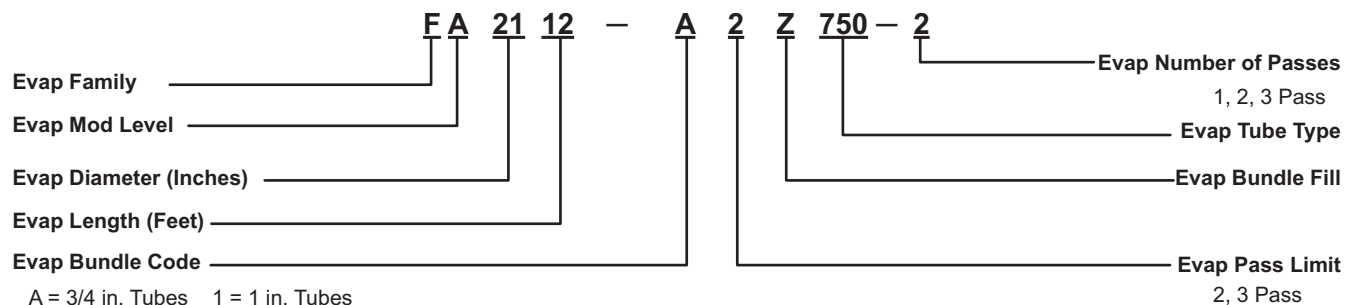


VARIABLE SPEED DRIVE NOMENCLATURE

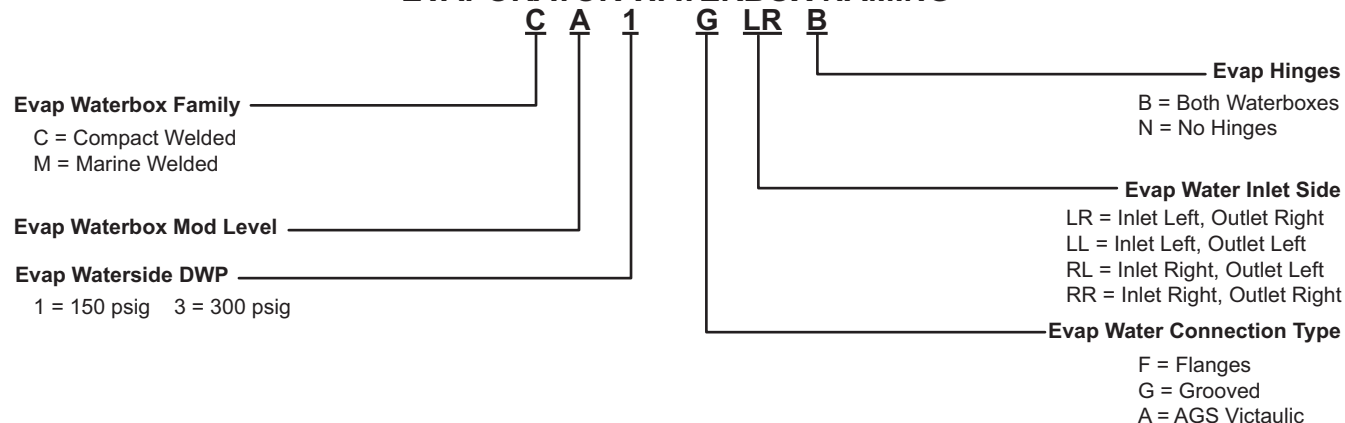


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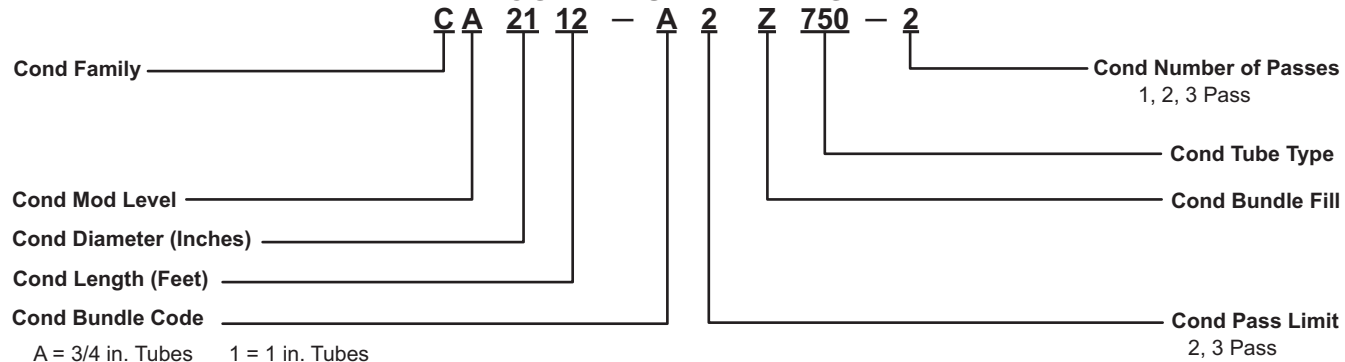
EVAPORATOR NAMING



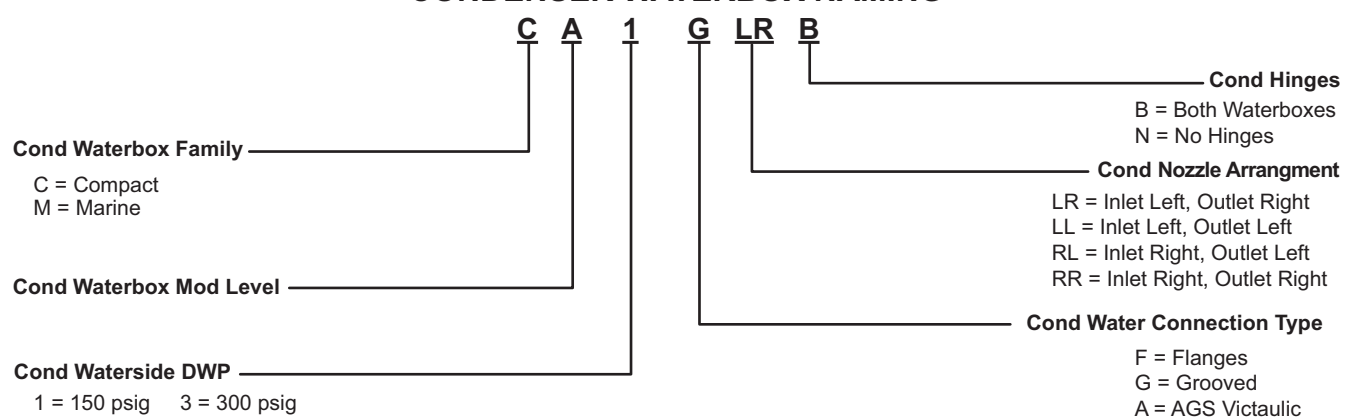
EVAPORATOR WATERBOX NAMING



CONDENSER NAMING



CONDENSER WATERBOX NAMING



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LIST OF TABLES

TABLE 1 - Unit Assembly Without Isolation Valves	8
TABLE 2 - Unit Assembly With Isolation Valves	10
TABLE 3 - Evaporator Closures	13
TABLE 4 - Condenser Closures	15
TABLE 5 - Motor Wiring Kit - VSD PYT330A.....	17
TABLE 6 - Motor Wiring Kit - VSD PYT420A.....	19
TABLE 7 - Motor Wiring Kit - VSD PYT780A.....	21
TABLE 8 - Motor Wiring Kit - VSD PYT1020A.....	24
TABLE 9 - Motor Wiring Kit - VSD PYT1280A.....	26
TABLE 10 - Hot Gas Kit.....	28
TABLE 11 - Hot Gas Wiring Kit.....	30
TABLE 12 - Purge Unit.....	31
TABLE 13 - Liquid Line (Motor - MA033AA and MA041AA).....	35
TABLE 14 - Liquid Line (Motor - MA068AA and MA095AA).....	38
TABLE 15 - Evaporator Tubes.....	40
TABLE 16 - Evaporator Waterbox Gaskets (Compact)	41
TABLE 17 - Evaporator Waterbox Gaskets (Marine)	41
TABLE 18 - Condenser Tubes.....	42
TABLE 19 - Condenser Tubes (Sub-Cooler)	43
TABLE 20 - Condenser Waterboxes Gaskets (Compact)	44
TABLE 21 - Condenser Waterboxes Gaskets (Marine).....	45
TABLE 22 - System Piping	46
TABLE 23 - Evaporator Relief Valve Kit	54
TABLE 24 - Condenser Relief Valve Kit	54
TABLE 25 - OptiView Panel	55
TABLE 26 - System Wiring.....	58
TABLE 27 - VSD Installation Kit	69
TABLE 28 - Gaskets Kits.....	71
TABLE 29 - Evaporator Thermal Flow Sensor	72
TABLE 30 - Condenser Thermal Flow Sensor	72
TABLE 31 - Evaporator Flow Switch	72
TABLE 32 - Condenser Flow Switch	72
TABLE 33 - BAS Network Interface.....	72
TABLE 34 - Neoprene Isolators.....	72
TABLE 35 - Spring Isolators	72
TABLE 36 - Consumables (Corrosion Inhibitor + Touch-Up Paints).....	72

TABLE 1 - UNIT ASSEMBLY WITHOUT ISOLATION VALVES

ITEM	EVAP CODE	COND CODE	DESCRIPTION	PART NUMBER	SAP NUMBER	FIGURE
1	FB29, FA33	CA21, SA25	Gasket 11.125 ID X 1.000 W X .063 THK	028-17341-010	5260912	1
	FA33, FA39, FB49	CA25, SA33, CA33, SA39	Gasket 13.125 ID X 1.000 W X .063 THK	028-17341-012	5260913	
	FB48, FB56	CA39, SA44	Gasket 18.375 ID X 1.000 W X .063 THK	028-17341-018	5260916	
3	FB29, FA33	CA21, SA25	Gasket 18.375 ID X 1.000 W X .063 THK	028-17341-018	5260916	1
	FA33, FA39	CA25, SA33	Gasket 20.375 ID X 1.000 W X .063 THK	028-17341-020	5260917	
	FA39, FB48	CA33, SA39	Gasket 24.375 ID X 1.000 W X .063 THK	028-17341-024	5260918	
	FB48, FB56	CA39, SA44	Gasket 28.375 ID X 1.000 W X .063 THK	028-17341-028	5379145	
6	FB29, FA33	CA21, SA25	Flange SO 10.875 ID 13.875BC X 12	092-46002-010	5260922	1
	FA33, FA39, FB48	CA25, SA33, CA33, SA39	Flange SO 12.875 ID 15.875BC X 16	092-46002-012	5260923	
	FB48, FB56	CA39, SA44	Flange SO 16.125 ID 19.125BC X 16	092-46002-016	5260925	
8	FB29, FA33	CA21, SA25	Flange RD RF 150# S/O 10.00"	023-02336-000	731563	1
	FA33, FA39, FB48	CA25, SA33, CA33, SA39	Flange RD RF 150# S/O 12.00"	023-02339-000	731564	
	FB48, FB56	CA39, SA44	Flange RD RF 150# S/O 16.00"	023-03326-000	617855	
15	FB29	CA21	Channel, Mounting, Comp, Bottom	092-57522-001	5412430	1
		SA25		092-57522-002	5412431	
	FA33	CA25, SA33		092-51382-001	5415503	
		SA33		092-51382-002	5415504	
	FA39	SA39		092-55609-000	5414399	
		CA33		092-52473-001	5442567	
		SA39		092-52473-002	5442568	
	FB48	SA39		092-69943-000	5443316	
		CA39		092-73719-001	5459477	
		SA44		092-73719-002	5459478	
	FB56	SA44		092-65919-000	5459465	
16	FB29, FA33, FA39	CA21, SA25, CA25, SA33	Channel, Mounting, Comp, Top	092-57521-001	5412428	1
	FA39, FB48	CA33, SA39		092-52472-001	5442565	
	FA39	SA39		092-52472-002	5442566	
	FB48	CA39, SA44	Channel, Mounting, Comp, Bottom	092-73719-001	5459477	
	FB56	SA44	Channel, Mounting, Comp, Top	092-73716-002	5459476	
18	FA39	CA33	Plate, Support, Motor, 750T	092-57539-001	5442570	1
		SA39		092-57539-002	5442571	
	FB48	SA39	Plate, Support, Motor, 750T	092-57539-003	5442572	
		CA39	Plate, Support, Motor, A095	092-73673-001	5459469	
		SA44		092-73673-002	5459470	
	FB56	SA44	Plate, Support, Motor, A095	092-73674-003	5459474	

TABLE 1 - UNIT ASSEMBLY WITHOUT ISOLATION VALVES (CONT'D)

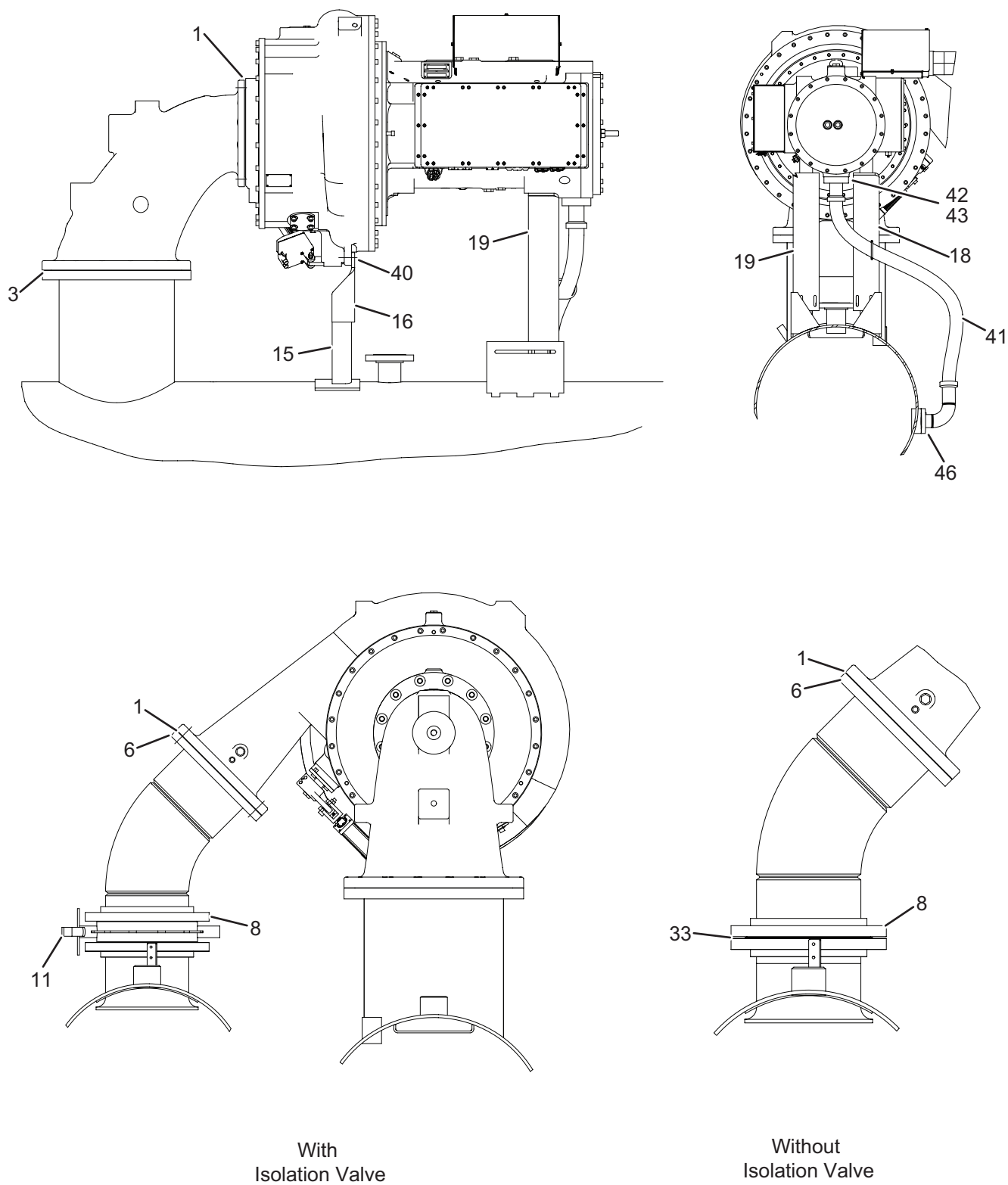
ITEM	EVAP CODE	COND CODE	DESCRIPTION	PART NUMBER	SAP NUMBER	FIGURE
19	FB29	CA21	Plate, Support, Motor, 300T	092-57523-001	5412432	1
		SA25		092-57523-002	5412433	
	FA33	SA25		092-57523-003	5412434	
	FA33, FA33		Support, Motor, 500T	092-51380-001	5414390	
	FA39	SA33		092-51380-002	5414391	
		CA33	Plate, Support, Motor, 750T	092-57541-001	5442573	
		SA39		092-57541-002	5442574	
	FB48	SA39		092-57541-003	5442575	
		CA39	Plate, Support, Motor, A095	092-73674-001	5459472	
		SA44		092-73674-002	5459473	
	FB56	SA44		092-73673-003	5459471	
	33	FB29, FA33	CA21, SA25	Gasket Round DN=13-3/8in CL150	028-15075-014	
FA33, FA39, FB48		CA25, SA33, CA33, SA39	Gasket Round DN=16-1/8in CL150	028-15075-015	741979	
FA48, FB56		CA39, SA44	Gasket Round DN=20-1/4in CL150	028-15075-017	741981	
40	FA39, FB48	CA33, SA39	Gasket 16.375 ID X 1.000 W X .063 THK	028-17341-016	5260915	1
41	FB29	CA21	Hose Braided Flex Metal	026-46828-005	5416726	1
	FB29, FA33	SA25, CA25, SA33		026-46828-007	5440817	
		SA33		026-46828-008	5440818	
	FA39	CA33		026-46828-009	5440819	
		SA39		026-46828-010	5440820	
	FB48	CA39	3" I.D. Braided Flex. Metal Hose, 72" LG	026-46828-301	5475494	
		SA44	3" I.D. Braided Flex. Metal Hose, 88" LG	026-46828-302	5475495	
	FB56	SA44	3" I.D. Braided Flex. Metal Hose, 96" LG	026-46828-303	5475496	
42	FB29, FA33, FA39, FB48	CA21, SA25, CA25, SA33, CA33, SA39	Flange, 2" OPH Vent	092-44305-000	5279909	1
	FB48, FB56	CA39, SA44	Flange, 3" Motor Cooling Vent	092-79117-000	5475503	
43	FB29, FA33, FA39, FB48	CA21, SA25, CA25, SA33, CA33, SA39	O-Ring NEO1 02.600ID .210 THK M	028-14469-000	741886	1
	FB48, FB56	CA39, SA44	O-Ring Size=342 5.33 91.44mm NEO1 N N/A	028-17985-000	5462281	
46	FB29, FA33, FA39, FB48	CA21, SA25, CA25, SA33, CA33, SA39	O-Ring NEO1 02.234ID .139 THK M	028-16598-000	711308	1
	FB48, FB56	CA39, SA44	O-Ring Size=237 3.53 85.34mm NEO1 M	028-18032-000	5515290	

TABLE 2 - UNIT ASSEMBLY WITH ISOLATION VALVES

ITEM	EVAP CODE	COND CODE	DESCRIPTION	PART NUMBER	SAP NUMBER	FIGURE
1	FB29, FA33	CA21, SA25	Gasket 11.125 ID X 1.000 W X .063 THK	028-17341-010	5260912	1
	FA33, FA39, FB48	CA25, SA33, CA33, SA39	Gasket 13.125 ID X 1.000 W X .063 THK	028-17341-012	5260913	
	FB48, FB56	CA39, SA44	Gasket 18.375 ID X 1.000 W X .063 THK	028-17341-018	5260916	
3	FB29, FA33	CA21, SA25	Gasket 18.375 ID X 1.000 W X .063 THK	028-17341-018	5260916	1
	FA33	CA25	Gasket 20.375 ID X 1.000 W X .063 THK	028-17341-020	5260917	
		SA33	Screw Cap Hvy Hex 3/4 UNC L=4-1/2in GrB7	021-32312-036	667928	
	FA39			Gasket 20.375 ID X 1.000 W X .063 THK	028-17341-020	
	FA39, FB48	CA33, SA39	Gasket 24.375 ID X 1.000 W X .063 THK	028-17341-024	5260918	
	FB48, FB56	CA39, SA44	Gasket 28.375 ID X 1.000 W X .063 THK	028-17341-028	5379145	
6	FB29, FA33	CA21, SA25	Flange SO 10.875 ID 13.875BC X 12	092-46002-010	5260922	1
	FA33, FA39, FB48	CA25, SA33, CA33, SA39	Flange SO 12.875 ID 15.875BC X 16	092-46002-012	5260923	
	FB48, FB56	CA39, SA44	Flange SO 16.125 ID 19.125BC X 16	092-46002-016	5260925	
8	FB29, FA33	CA21, SA25	Flange RD RF 150# S/O 10.00"	023-02336-000	731563	1
	FA33, FA39, FB48	CA25, SA33, CA33, SA39	Flange RD RF 150# S/O 12.00"	023-02339-000	731564	
	FB48, FB56	CA39, SA44	Flange RD RF 150# S/O 16.00"	023-03326-000	617855	
11	FB29, FA33	CA21, SA25	Valve ISLN BTFL LVR 10in FLG fix DI	022-10641-510	5216072	1
	FA33, FA39, FB48	CA25, SA33, CA33, SA39	Valve ISLN BTFL LVR 12in FLG fix DI	022-10641-512	5216073	
	FB48, FB56	CA39, SA44	Valve ISLN BTFL LVR 16in FLG fix DI	022-10641-516	5324384	
15	FB29	CA21	Channel, Mounting, Comp, Bottom	092-57522-001	5412430	1
		SA25		092-57522-002	5412431	
	FA33	SA25		092-51382-001	5415503	
		CA25		092-51382-002	5415504	
		SA33		092-51382-003	5415505	
	FA39	SA33, CA33		092-52473-001	5442567	
		SA39		092-52473-002	5442568	
	FB48	SA39		092-69943-000	5443316	
		CA39		092-73719-001	5459477	
	FB56	SA44		092-73719-002	5459478	
				092-65919-000	5459465	
	16	FB29, FA33, FA39		CA21, SA25, CA25, SA33	Channel, Mounting, Comp, Top	
FA33		SA33	092-57521-002	5412429		
FA39, FB48		CA33, SA39	092-52472-001	5442565		
FA39		SA39	092-52472-002	5442566		
FB48		CA39, SA44	092-73716-001	5459475		
FB56		SA44	092-73716-002	5459476		

TABLE 2 - UNIT ASSEMBLY WITH ISOLATION VALVES (CONT'D)

ITEM	EVAP CODE	COND CODE	DESCRIPTION	PART NUMBER	SAP NUMBER	FIGURE
18	FA39	CA33	Plate, Support, Motor, 750T	092-57539-001	5442570	1
		SA39		092-57539-002	5442571	
	FB48	SA39	Plate, Support, Motor, 750T	092-57539-003	5442572	
		CA39	Plate, Support, Motor, A095	092-73673-001	5459469	
		SA44	Plate, Support, Motor, A095	092-73673-002	5459470	
	FB56	SA44	Plate, Support, Motor, A095	092-73674-003	5459474	
19	FB29	CA21	Plate, Support, Motor, 300T	092-57523-001	5412432	1
		SA25		092-57523-002	5412433	
	FA33	SA25	Plate, Support, Motor, 300T	092-57523-003	5412434	
		CA25	Support, Motor, 500T	092-51380-001	5414390	
		SA33		092-51380-003	5414392	
	FA39	SA33	Support, Motor, 500T	092-51380-002	5414391	
		CA33	Plate, Support, Motor, 750T	092-57541-001	5442573	
		SA39		092-57541-002	5442574	
	FB48	SA39	Plate, Support, Motor, 750T	092-57541-003	5442575	
		CA39	Plate, Support, Motor, A095	092-73674-001	5459472	
		SA44		092-73674-002	5459473	
	FB56	SA44	Plate, Support, Motor, A095	092-73673-003	5459471	
41	FB29	CA21	Hose Braided Flex Metal	026-46828-005	5416726	1
	FB29, FA33	SA25, CA25		026-46828-007	5440817	
	FA33, FA39	SA33		026-46828-008	5440818	
	FA39	CA33		026-46828-009	5440819	
	FA39, FB48	SA39		026-46828-010	5440820	
	FB48	CA39	3" I.D. Braided Flex. Metal Hose, 72" LG	026-46828-301	5475494	
		SA44	3" I.D. Braided Flex. Metal Hose, 88" LG	026-46828-302	5475495	
	FB56	SA44	3" I.D. Braided Flex. Metal Hose, 96" LG	026-46828-303	5475496	
42	FB29, FA33, FA39, FB48	CA21, SA25, CA25, SA33, CA33, SA39	Flange, 2" OPH Vent	092-44305-000	5279909	1
	FB48, FB56	CA39, SA44	Flange, 3" Motor Cooling Vent	092-79117-000	5475503	
43	FB29, FA33, FA39, FB48	CA21, SA25, CA25, SA33, CA33, SA39	O-Ring NEO1 02.600ID .210 THK M	028-14469-000	741886	1
	FB48, FB56	CA39, SA44	O-Ring Size=342 5.33 91.44mm NEO1 N N/A	028-17985-000	5462281	
46	FB29, FA33, FA39, FB48	CA21, SA25, CA25, SA33, CA33, SA39	O-Ring NEO1 02.234ID .139 THK M	028-16598-000	711308	1
	FB48, FB56	CA39, SA44	O-Ring Size=237 3.53 85.34mm NEO1 M	028-18032-000	5515290	

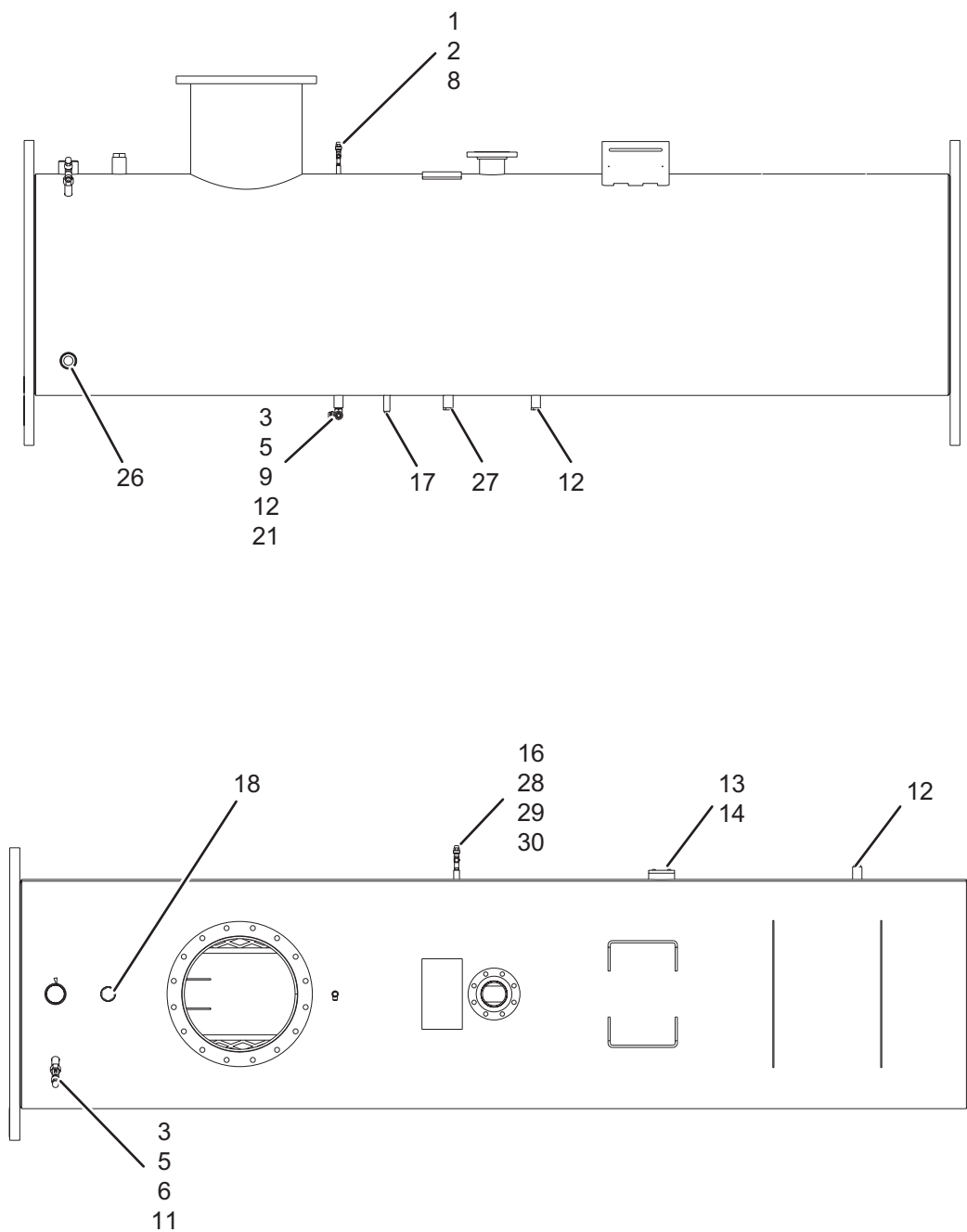


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FIGURE 1 - UNIT ASSEMBLY

TABLE 3 - EVAPORATOR CLOSURES

ITEM	EVAPORATOR CODE	DESCRIPTION	PART NUMBER	SAP NUMBER	QTY	FIGURE
1	FB29, FA33, FA39, FB48	O-Ring Size=904 1.83 8.92mm NEO1 N N/A	028-12961-001	588817	1	2
2	FB29, FA33, FA39, FB48	Valve ISLN Angle SC 1/2in THD SC	022-09577-000	617078	1	2
3	FB29, FA33, FA39, FB48	Cap Flare 3/4 OD Tube	023-00984-000	617242	2	2
5	FB29, FA33, FA39, FB48	Gasket FLA 3/4 OD Tube	028-09211-000	618602	2	2
6	FB29, FA33, FA39, FB48	Gasket, Seal 1 OD X 7/8 ID X	028-04836-000	62960	1	2
8	FB29, FA33, FA39, FB48	O-Ring NEO1 00.414ID .072 THK M	028-12961-002	683003	1	2
9	FB29, FA33, FA39, FB48	Elbow 90° Steel ORB(M) 1-1/16in ORB(F)	023-25543-000	829123	1	2
11	FB29, FA33, FA39, FB48	Valve Stop Ang Vertical	022-09573-000	617077	1	2
12	FB29, FA33, FA39, FB48	O-Ring Size=912 2.95 23.47mm NEO1 N N/A	028-12961-006	588821	4	2
13	FB29, FA33, FA39, FB48	O-Ring NEO1 02.600ID .210 THK M	028-14469-000	741886	1	2
	FB56	O-Ring Size=342 5.33 91.44mm NEO1 N N/A	028-17985-000	5462281		
14	FB29, FA33, FA39, FB48	Head Pressure Test 2"	092-29733-000	5144824	1	2
	FB56	Head Pressure Test 3"	092-76875-000	5487223		
16	FB29, FA33, FA39, FB48	O-Ring Size=906 1.98 11.89mm NEO1 N N/A	028-12961-003	588818	1	2
17	FB29, FA33, FA39, FB48	O-Ring Size=908 2.21 16.36mm NEO1 N N/A	028-12961-004	588819	1	2
18	FB29, FA33, FA39, FB48	O-Ring NEO1 01.720ID .118 THK M	028-12961-020	618656	1	2
21	FB29, FA33, FA39, FB48	Valve ISLN Ball SC 1-1/16in CONmix Br	022-09757-000	62507	1	2
26	FB29, FA33, FA39, FB48	O-Ring NEO1 02.090ID .118 THK M	028-12961-036	618660	1	2
27	FB29, FA33, FA39, FB48	O-Ring Size=916 2.95 29.74mm NEO1 N N/A	028-12961-008	588822	1	2
28	FB29, FA33, FA39, FB48	O-Ring NEO1 00.364ID .070 THK M	028-12961-012	618648	1	2
29	FB29, FA33, FA39, FB48	Valve ISLN Angle SC 9/16in CONmix SC	022-10054-000	617117	1	2
30	FB29, FA33, FA39, FB48	Cap Tube ORF(F) STL 11/16in N/A	023-19007-000	146655	1	2

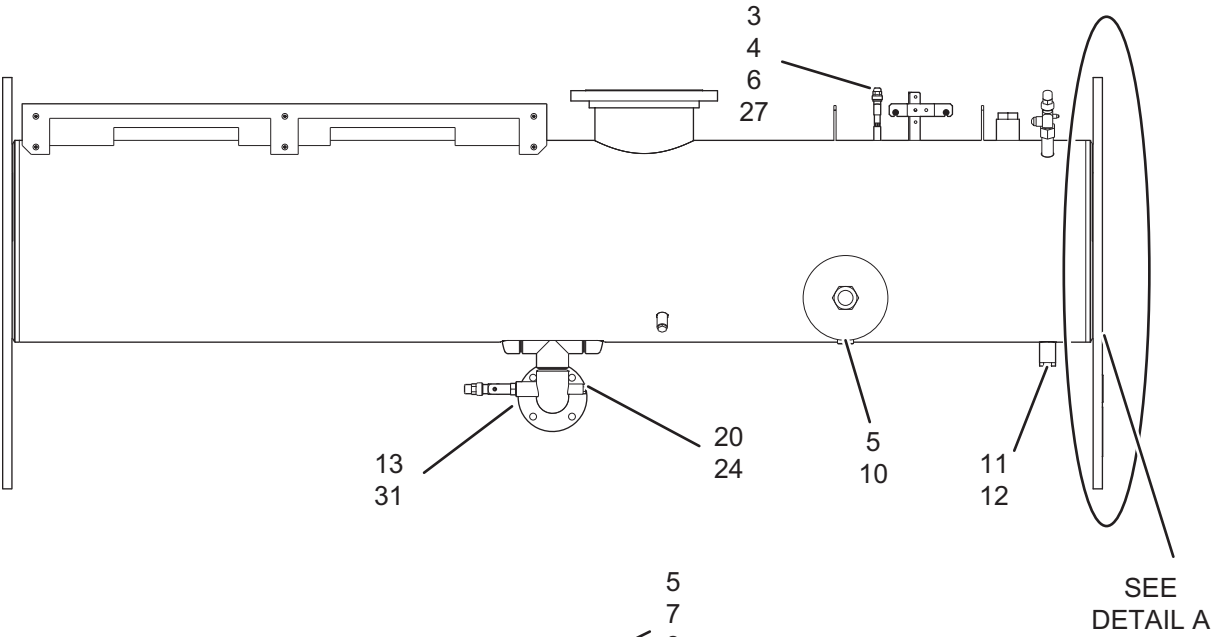


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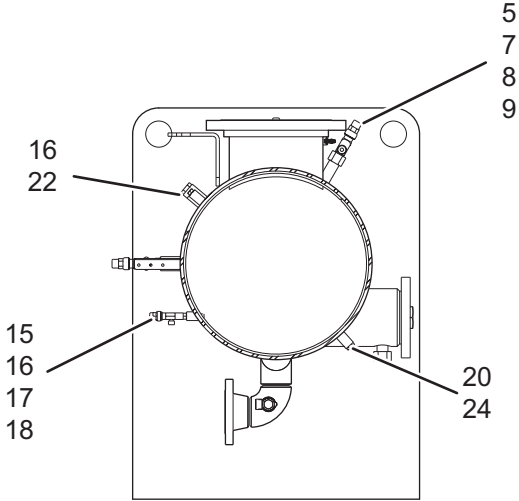
FIGURE 2 - EVAPORATOR CLOSURES

TABLE 4 - CONDENSER CLOSURES

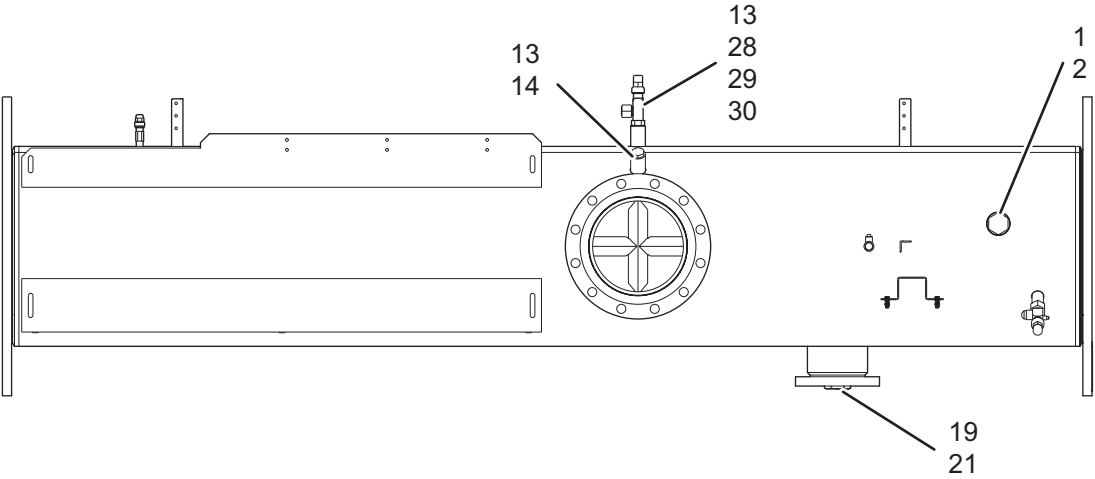
ITEM	DESCRIPTION	PART NUMBER	SAP NUMBER	FIGURE
1	Plug Steel 1-7/8 ORB(M) Hex	023-22389-000	588740	3
2	O-Ring NEO1 01.720ID .118 THK M	028-12961-020	618656	3
3	O-Ring NEO1 00.414ID .072 THK M	028-12961-002	683003	3
4	Plug Steel 1/2 ORB(M) Hex	023-20226-000	617663	3
5	Gasket, Seal 1 OD X 7/8 ID X	028-04836-000	62960	3
6	O-Ring Size=904 1.83 8.92mm NEO1 N N/A	028-12961-001	588817	3
7	Valve Stop Ang Vertical	022-09573-000	617077	3
8	Cap Flare 3/4 OD Tube	023-00984-000	617242	3
9	Gasket FLA 3/4 OD Tube	028-09211-000	618602	3
10	Nut Seal	023-18278-000	617617	3
11	Plug Steel 1-5/16 ORB(M) Hex	023-18282-000	146271	3
12	O-Ring Size=916 2.95 29.74mm NEO1 N N/A	028-12961-008	588822	3
13	O-Ring Size=912 2.95 23.47mm NEO1 N N/A	028-12961-006	588821	3
14	Plug Steel 1-1/16 ORB(M) Hex	023-18295-000	146284	3
15	Valve ISLN Angle SC 9/16in CONmix SC	022-10054-000	617117	3
16	O-Ring Size=906 1.98 11.89mm NEO1 N N/A	028-12961-003	588818	3
17	O-Ring NEO1 00.364ID .070 THK M	028-12961-012	618648	3
18	Cap Tube ORF(F) STL 11/16in N/A	023-19007-000	146655	3
19	O-Ring NEO1 02.090ID .118 THK M	028-12961-036	618660	3
20	O-Ring Size=908 2.21 16.36mm NEO1 N N/A	028-12961-004	588819	3
21	Plug Sight 2-1/4 -12 UN-2A	023-17197-000	146345	3
22	Plug Steel 9/16 ORB(M) Hex	023-18962-000	146232	3
24	Plug ZN-STL 3/4 UNF Hex	023-18280-000	105070	3
27	Valve ISLN Angle SC 1/2in THD SC	022-09577-000	617078	3
28	Valve ISLN Angle SC 1-3/16in THD Br	022-10047-000	617115	3
29	Cap Tube ORF(F) STL 1-3/16 N/A	023-18288-000	116322	3
30	O-Ring NEO1 00.739ID .070 THK M	028-12961-015	618651	3
31	Valve Stop Angle Vertical	022-12047-000	659429	3



SEE
DETAIL A



DETAIL A

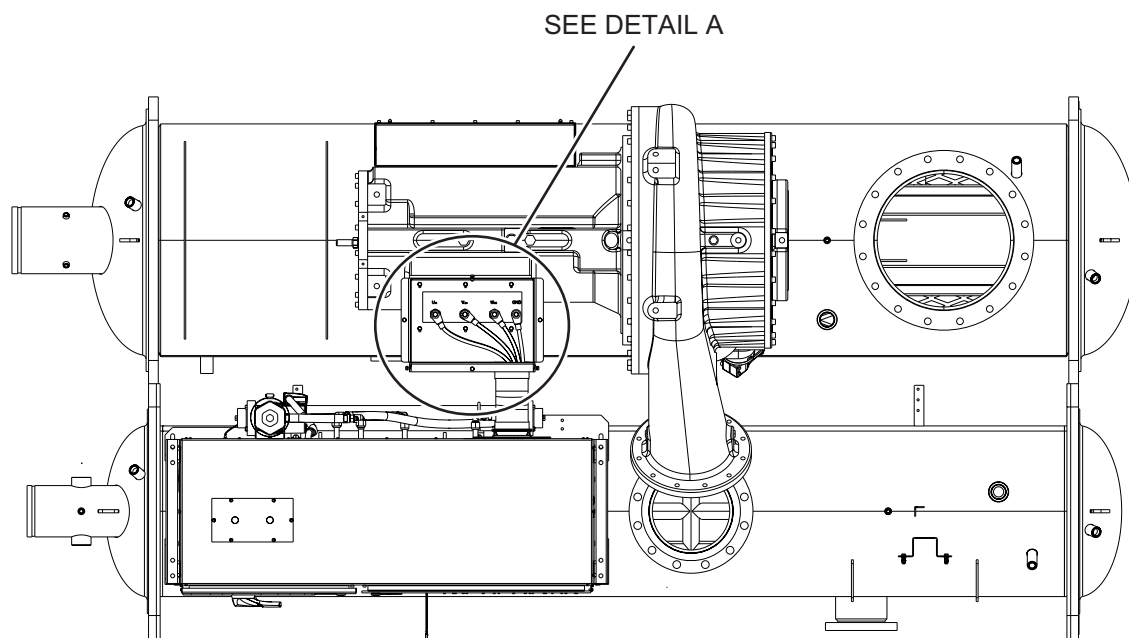


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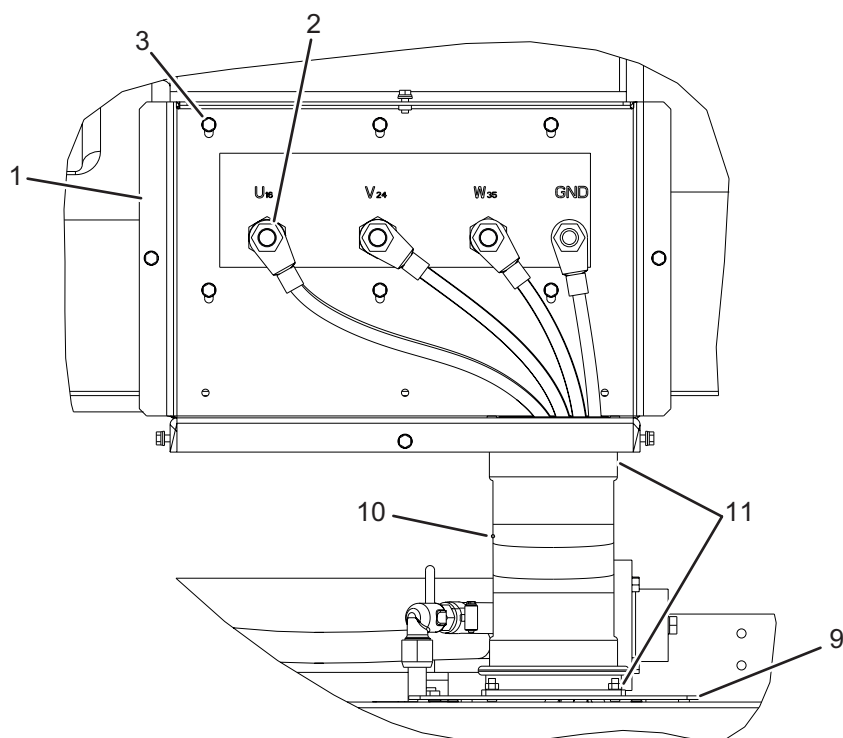
FIGURE 3 - CONDENSER CLOSURES

TABLE 5 - MOTOR WIRING KIT - VSD PYT330A

VSD PYT330A				
ITEM	DESCRIPTION	PART NUMBER	SAP	FIGURE
1	Assy, Motor Term Box, 330Hp	371-08555-002	5508178	4
	Assy, Motor Term Box, 330/410Hp	371-08555-003	5508179	
		371-08555-005	5508181	
	Cover, Motor Term Box, 330/410Hp	071-08555-301	5508175	
	Gasket, Motor Term Box, 330/410Hp	071-08552-200	5508168	
	Seal-Edge Grip 3/8 In Dia Bulb	028-16512-000	742257	
1	Assy-Base, Motor Term Box, 330Hp	371-08555-201	5508182	4
	Base, Motor Term Box, 330Hp	071-08555-201	5508171	
1	Assy-Base, Motor Term Box, 330/410Hp	371-08555-202	5508183	4
	Base, Motor Term Box, 330/410Hp	071-08555-202	5508172	
1	Assy-Base, Motor Term Box, 330/410Hp	371-08555-204	5508185	4
	Base, Motor Term Box, 330/410Hp	071-08555-204	5508174	
2	Harness, 1/0 VSD To Motor	392-62928-132	5508186	4
2	Harness, 1/0 VSD To Motor	392-62928-140	5508187	4
		392-62928-146	5443334	
	Wire Elec 1/0 Awg Black	025-32944-000	738779	
	Wire Elec 2 Awg Blk Per Aso	025-35949-000	739246	
	Lug Wire 2 Awg Ring Terminal 180.0°	025-34401-000	117661	
	Lug Wire 1/0 Awg Ring Terminal 180.0°	025-37802-000	1115492	
	Lug Wire 2 Awg Ring Terminal 180.0°	025-49993-000	5410396	
	Lug Wire 1/0 Awg Ring Terminal 180.0°	025-49994-000	5410397	
9	Assy, VSD Adapter Plate, 330/410/780	371-08553-401	5508177	4
	Plate, VSD Adapter, 330/410/780	071-08553-401	5508170	
	Seal-Edge Grip 3/8 In Dia Bulb	028-16512-000	742257	
9	Assy, VSD Adapter Plate, 330/410	371-08553-221	5508176	4
	Plate, VSD Adapter, 330/420A VSD	071-08553-221	5508169	
	Seal-Edge Grip 3/8 In Dia Bulb	028-16512-000	742257	
10	Conduit Flexible Id=91.5Mm Od=106Mm Np6	025-50852-004	5508163	4
	Conduit Flexible Id=2In Id=46 Od=54.5	025-47663-005	5167343	
11	Conduit Fitting 106Mm Black	025-47660-001	5508155	4
	Conduit Ell 45 Deg 54Mm Black	025-50854-002	5508166	



UNIT WITH 330/420 VSD

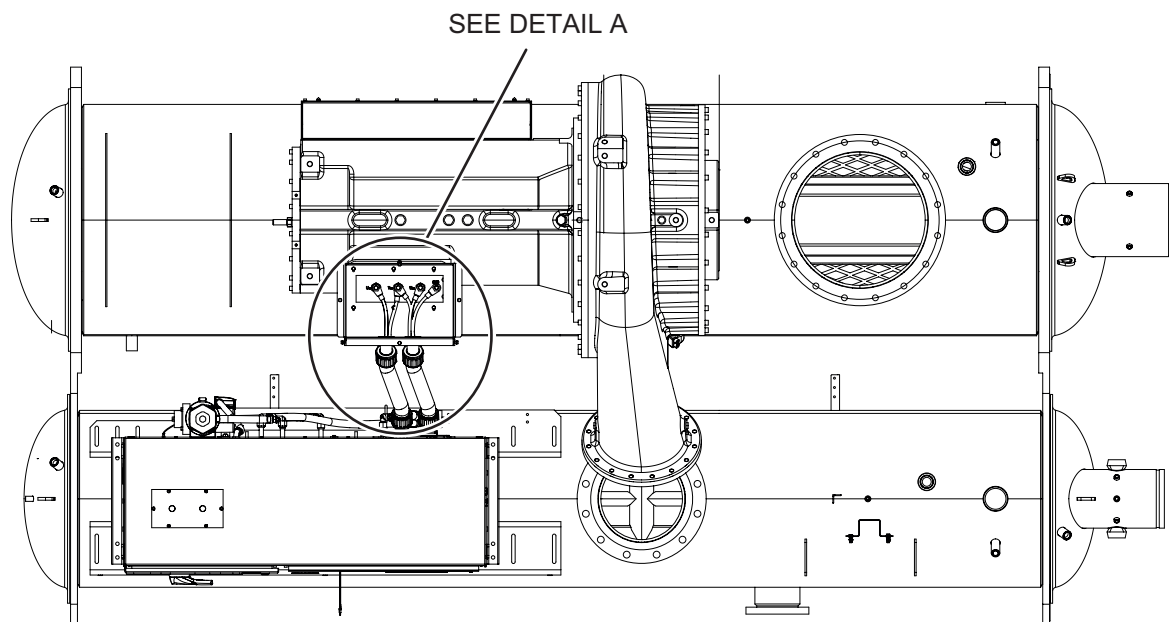


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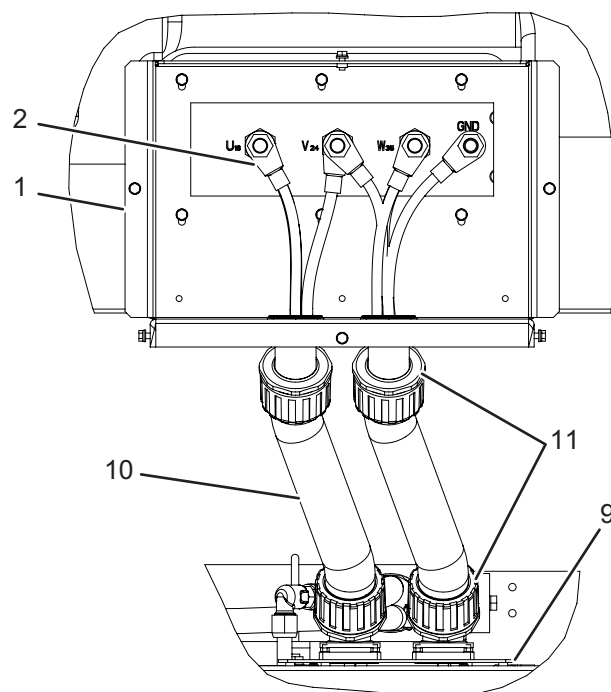
FIGURE 4 - MOTOR WIRING KIT - VSD PYT330A/420A

TABLE 6 - MOTOR WIRING KIT - VSD PYT420A

VSD PYT420A				
ITEM	Description	PART NUMBER	SAP	FIGURE
1	Assy, Motor Term Box, 330/410Hp	371-08555-003	5508179	5
		371-08555-005	5508181	
	Cover, Motor Term Box, 330/410Hp	071-08555-301	5508175	
	Gasket, Motor Term Box, 330/410Hp	071-08552-200	5508168	
1	Assy-Base, Motor Term Box, 330/410Hp	371-08555-202	5508183	5
	Base, Motor Term Box, 330/410Hp	071-08555-202	5508172	
1	Assy-Base, Motor Term Box, 330/410Hp	371-08555-204	5508185	5
	Base, Motor Term Box, 330/410Hp	071-08555-204	5508174	
2	Harness, 2/0 VSD To Motor	392-62928-232	5508188	5
2	Harness, 2/0 VSD To Motor	392-62928-240	5508189	5
		392-62928-244	5443336	
	Wire Elec 2/0 Awg Black	025-32945-000	738780	
	Wire Elec 2 Awg Blk Per Aso	025-35949-000	739246	
	Lug Wire 2/0 Awg Ring Terminal 180.0°	025-37803-000	1115493	
	Term Ring Tong 2/0 Awg	025-43898-000	740367	
	Lug Wire 2 Awg Ring Terminal 180.0°	025-34401-000	117661	
	Lug Wire 2 Awg Ring Terminal 180.0°	025-49993-000	5410396	
9	Assy, VSD Adapter Plate, 330/410/780	371-08553-401	5508177	5
	Plate, VSD Adapter, 330/410/780	071-08553-401	5508170	
9	Assy, VSD Adapter Plate, 330/410	371-08553-221	5508176	5
	Plate, VSD Adapter, 330/420A VSD	071-08553-221	5508169	
10	Conduit Flexible Id=91.5Mm Od=106Mm Np6	025-50852-004	5508163	5
	Conduit Flexible Id=2In Id=46 Od=54.5	025-47663-005	5167343	
11	Conduit Fitting 106Mm Black	025-47660-001	5508155	5
	Conduit Ell 45 Deg 54Mm Black	025-50854-002	5508166	



330/420 VSD WITH (2) 2" O.D. CONDUIT



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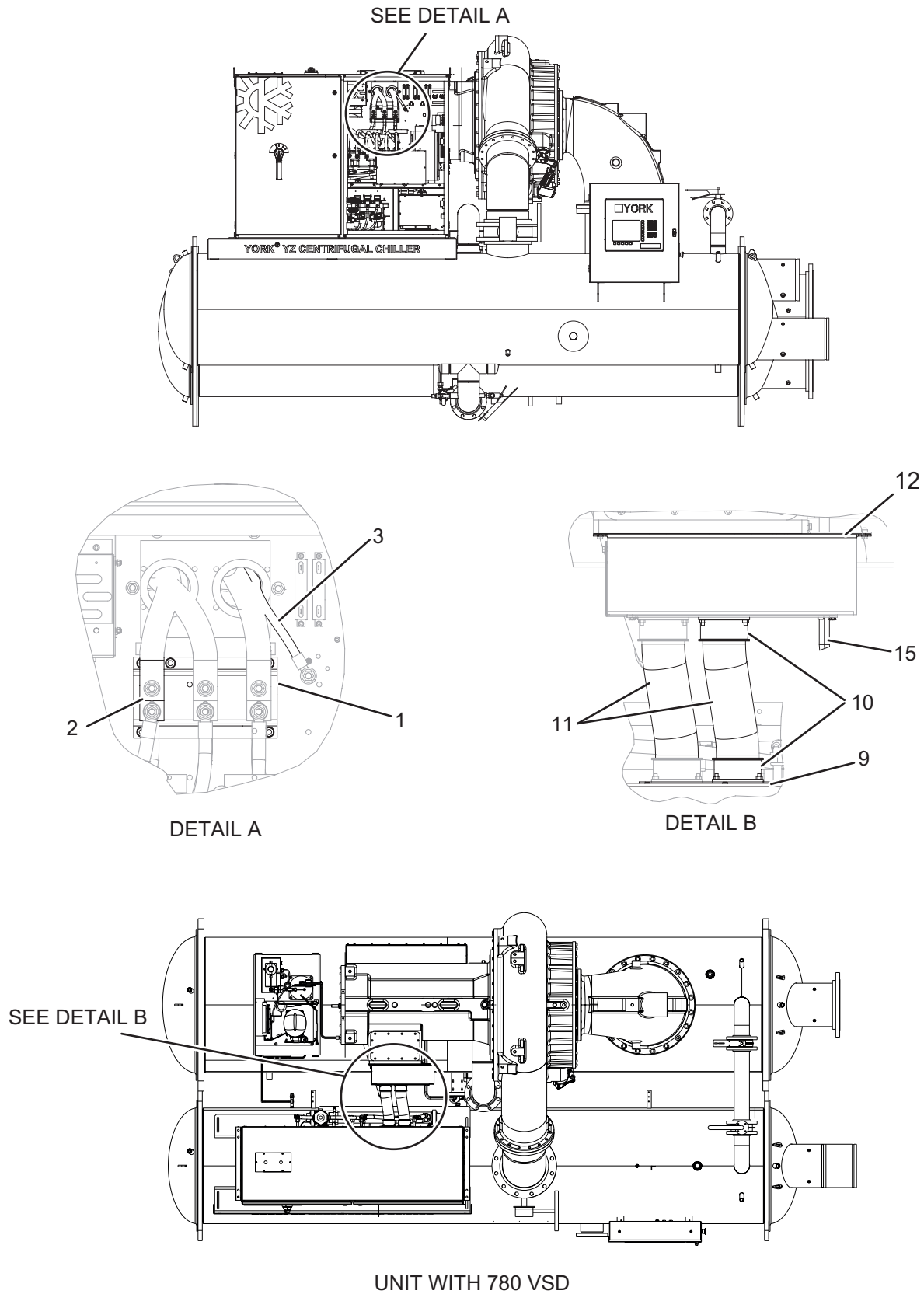
FIGURE 5 - MOTOR WIRING KIT - VSD PYT330A/420A

TABLE 7 - MOTOR WIRING KIT - VSD PYT780A

VSD PYT780A				
ITEM	DESCRIPTION	PART NUMBER	SAP	FIGURE
1	Assy, Motor Term Box, 330/410Hp	371-08555-003	5508179	6
	Assy, Motor Term Box, 410Hp	371-08555-004	5508180	
	Cover, Motor Term Box, 330/410Hp	071-08555-301	5508175	
	Gasket, Motor Term Box, 330/410Hp	071-08552-200	5508168	
1	Assy-Motor Term Box, 680Hp	371-08557-002	5528559	6
	Cover, Motor Term Box, 680Hp	071-08551-001	5528541	
	Gskt, Cover, Motor Term Box, 680Hp	071-08552-001	5528543	
	Gasket, Bellows, Motor Term Box, 950Hp-Y	071-08552-101	5515278	
	Gskt, Mtr Hsg, Mtr Term Box, 680Hp	071-08552-202	5528545	
1	Motor Term Box,680/950Hp	371-08557-004	5528560	6
	Cover, Motor Term Box, 680Hp	071-08551-004	5528542	
	Gskt, Cover, Motor Term Box, 680Hp	071-08552-003	5528544	
	Gasket, Bellows, Motor Term Box, 950Hp-Y	071-08552-101	5515278	
	Gasket, Mtr Hsg, Motor Term Box, 950Hp-Y	071-08552-204	5515279	
1	Assy-Motor Term Box, 950Hp	371-08559-002	5515285	6
	Cover, Motor Term Box, 950Hp	071-08551-002	5515276	
	Gasket, Cover, Motor Term Box, 950Hp	071-08552-002	5515277	
	Gasket, Bellows, Motor Term Box, 950Hp-Y	071-08552-101	5515278	
	Gasket, Mtr Hsg, Motor Term Box, 950Hp-Y	071-08552-204	5515279	
1	Assy-Motor Term Box, 950Hp-1020VSD	371-08559-001	5558943	6
	Cover, Mtr Term Box, 950Hp	071-08551-005	5558940	
	Gasket, Cover, Motor Term Box, 950Hp	071-08552-006	5558941	
	Gasket, Bellows, Motor Term Box, 950Hp-Y	071-08552-101	5515278	
	Gasket, Motor Hsg, Motor Term Box, 680Hp	071-08552-202	5528545	
1	Assy-Base, Motor Term Box, 330/410Hp	371-08555-202	5508183	6
	Base, Motor Term Box, 330/410Hp	071-08555-202	5508172	
1	Assy-Base, Motor Term Box, 410Hp	371-08555-203	5508184	6
	Base, Motor Term Box, 410Hp	071-08555-203	5508173	
1	Assy-Base, Motor Term Box, 680Hp	371-08557-201	5528562	6
	Base, Motor Term Box, 680Hp	071-08557-201	5528550	
1	Base, Motor Term Box,680/950Hp	371-08557-401	5528563	6
	Base, Motor Term Box,680/950Hp	071-08557-401	5528551	
1	Assy-Base, Motor Term Box, 950Hp	371-08559-201	5515286	6
	Base, Motor Term Box, 950Hp	071-08559-201	5515281	
1	Assy-Base, Motor Term Box, 950Hp	371-08559-101	5558944	6
	Base, Motor Term Box, 950Hp	071-08559-101	5558942	
2	Harness, 4/0 VSD To Motor	392-62928-430	5508190	6

TABLE 7 - MOTOR WIRING KIT - VSD PYT780A (CONT'D)

2	Harness, 4/0 VSD To Motor	392-62928-438	5508191	6
		392-62928-441	5443337	
	Wire Elec 4/0 Awg Black	025-32913-000	738768	
	Wire Elec 2/0 Awg Black	025-32945-000	738780	
	Term, Ring Tongue 3/8 In., 4/0	025-34204-000	739032	
	Lug Wire 4/0Awg Ring Terminal 180.0°	025-47744-000	5184424	
	Lug Wire 2/0Awg Ring Terminal 180.0°	025-37803-000	1115493	
	Term Ring Tong 2/0 Awg	025-43898-000	740367	
2	Harness, Bar, Flex Bus	392-62928-540	5456945	6
		392-62928-548	5456949	
		392-62928-652	5456972	
		392-62928-656	5456974	
3	Harness, 2/0 Gnd Motor	392-62928-340	5456927	6
		392-62928-348	5456931	
		392-62928-356	5558953	
	Wire Elec 2/0 Awg Black	025-32945-000	738780	
	Lug Wire 2/0Awg Ring Terminal 180.0°	025-37803-000	1115493	
	Term Ring Tong 2/0 Awg	025-43898-000	740367	
9	Assy,VSD Adapter Plate, 330/410	371-08553-221	5508176	6
	Plate, VSD Adapter, 330/420A VSD	071-08553-221	5508169	
9	Assy-Cover, Conduit, VSD	371-08553-321	5528557	6
	Cover, Conduit, VSD	071-08553-321	5528549	
10	Conduit Flexible Id=91.5Mm Od=106Mm Np6	025-50852-004	5508163	6
	Conduit Connector Straight 80Mm	025-47660-000	5311868	
11	Conduit Fitting 106 Mm Black	025-47660-001	5508155	6
	Conduit Flexible Id=67 Mm Od=80Mm	025-50852-003	5508162	
12	Assy-Support, Motor Term Box, 680Hp	371-08550-201	5528553	6
	Support, Motor Term Box, 680Hp	071-08550-201	5528540	
12	Assy-Support, Motor Term Box, 950Hp	371-08550-401	5515282	6
	Sprt,Mtr Term Box, 950Hp	071-08550-401	5515275	
15	Assy-Cover, Conduit,Motor Term Box, 680H	371-08553-301	5528555	6
	Cover, Conduit, Motor Term Box, 680Hp	071-08553-301	5528546	
15	Assy-Cover, Ctr Conduit, Motor Term Box,	371-08553-311	5528556	6
	Cover, Ctr Conduit, Motor Term Box, 680H	071-08553-311	5528547	

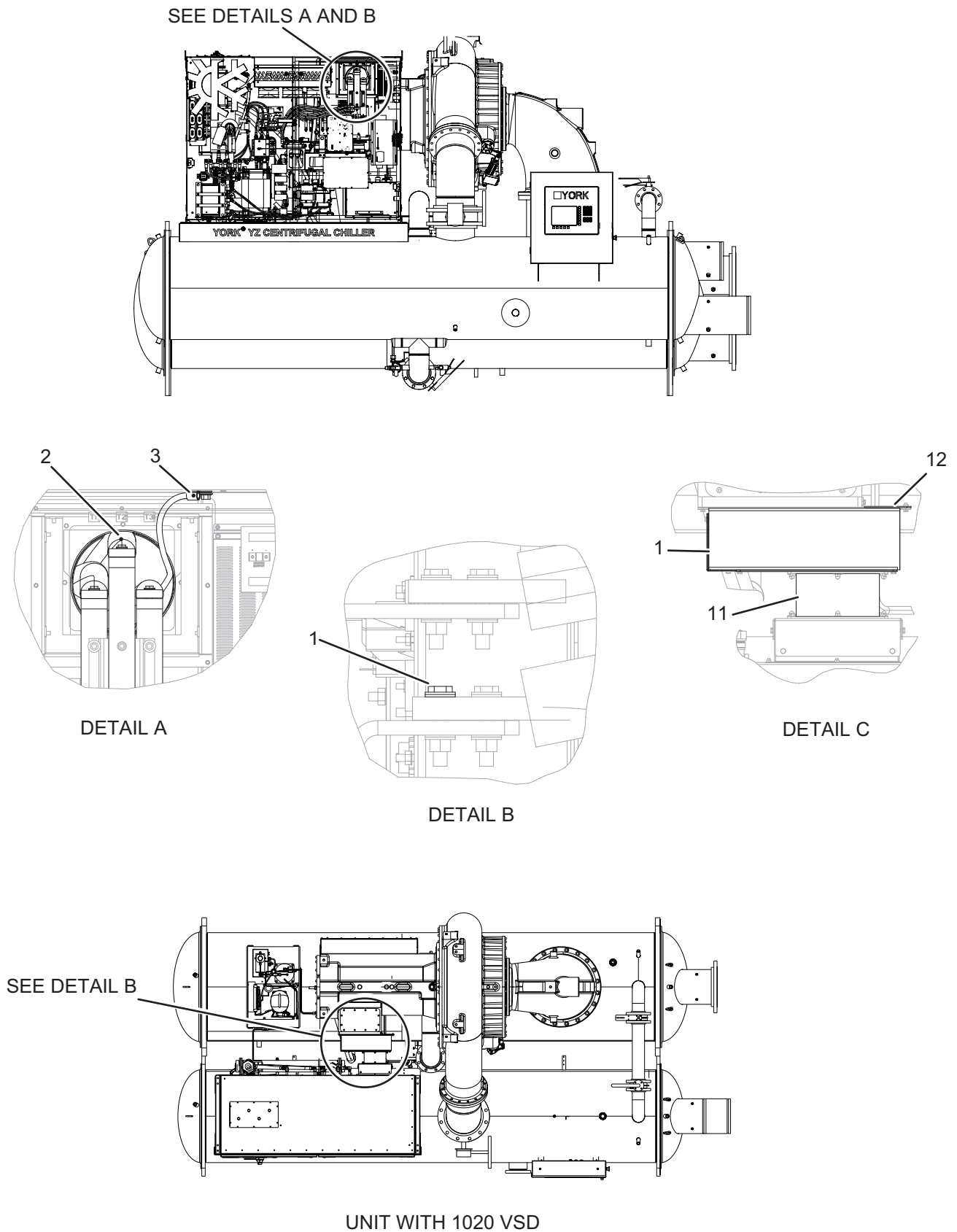


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FIGURE 6 - MOTOR WIRING KIT - VSD PYT780A

TABLE 8 - MOTOR WIRING KIT - VSD PYT1020A

VSD PYT1020A				
ITEM	DESCRIPTION	PART NUMBER	SAP	FIGURE
1	Assy-Motor Term Box, 680Hp	371-08557-005	5528561	7
	Assy-Motor Term Box, 680Hp	371-08557-002	5528559	
	Cover, Motor Term Box, 680Hp	071-08551-001	5528541	
	Gskt, Cover, Mtr Term Box, 680Hp	071-08552-001	5528543	
	Gasket, Bellows, Motor Term Box, 950Hp-Y	071-08552-101	5515278	
	Gskt, Mtr Hsg, Mtr Term Box, 680Hp	071-08552-202	5528545	
1	Motor Term Box,680/950Hp	371-08557-004	5528560	7
	Cover, Motor Term Box, 680Hp	071-08551-004	5528542	
	Gskt, Cover, Mtr Term Box, 680Hp	071-08552-003	5528544	
	Gasket, Bellows, Motor Term Box, 950Hp-Y	071-08552-101	5515278	
	Gasket, Mtr Hsg, Motor Term Box, 950Hp-Y	071-08552-204	5515279	
1	Assy-Motor Term Box, 950Hp-1020VSD	371-08559-001	5558943	7
	Cover, Mtr Term Box, 950Hp	071-08551-005	5558940	
	Gskt, Cover, Mtr Term Box, 950Hp	071-08552-006	5558941	
	Gasket, Bellows, Motor Term Box, 950Hp-Y	071-08552-101	5515278	
	Gskt, Mtr Hsg, Mtr Term Box, 680Hp	071-08552-202	5528545	
1	Assy-Base, Motor Term Box, 680Hp	371-08557-501	5528564	7
	Base, Motor Term Box, 680Hp	071-08557-501	5528552	
1	Assy-Base, Motor Term Box, 680Hp	371-08557-201	5528562	7
	Base, Motor Term Box, 680Hp	071-08557-201	5528550	
1	Assy-Base, Motor Term Box, 950Hp	371-08559-101	5558944	7
	Base, Motor Term Box, 950Hp	071-08559-101	5558942	
1	Base,Mtr Term Box,680/950Hp	371-08557-401	5528563	7
	Base,Mtr Term Box,680/950Hp	071-08557-401	5528551	
1	Assy-Cover,Blws,Mtr Term Box,680Hp	371-08553-102	5528554	7
	Assy-Cover, Bellows, Motor Term Box, 8"	371-08553-101	5515283	
	Cover, Bellows, Motor Term Box, 950Hp	071-08553-101	5515280	
2	Harness, Bar, Flex Bus	392-62928-738	5456986	7
		392-62928-742	5456988	
		392-62928-838	5457007	
		392-62928-844	5457010	
3	Harness, 4/0 Gnd Motor	392-62928-942	5457030	7
		392-62928-946	5457032	
		392-62928-948	5457033	
		392-62928-952	5519136	
	Wire Elec 4/0 Awg Black	025-32913-000	738768	
	Term, Ring Tongue 3/8 In., 4/0	025-34204-000	739032	
	Lug Wire 4/0Awg Ring Terminal 180.0°	025-47744-000	5184424	
4	Top Cover Assy, Bus Bar VSD 8"	371-08007-001	5404287	7
	Top Cover, Bus Bar VSD 8"	071-08006-001	5404284	
11	Assy-Blws, 8" Right	371-08554-102	5528558	7
	Assy-Bellows, 8" Left	371-08554-101	5515284	
	Raceways Flexible L=0.30M W=203.2Mm	023-25888-000	995459	
12	Assy-Support, Motor Term Box, 680Hp	371-08550-201	5528553	7
	Support, Motor Term Box, 680Hp	071-08550-201	5528540	
12	Assy-Support, Motor Term Box, 950Hp	371-08550-401	5515282	7
	Sprt,Mtr Term Box, 950Hp	071-08550-401	5515275	



LD28103

FIGURE 7 - MOTOR WIRING KIT - VSD PYT1020A

TABLE 9 - MOTOR WIRING KIT - VSD PYT1280A

VSD PYT1280A				
ITEM	DESCRIPTION	PART NUMBER	SAP	FIGURE
1	Motor Term Box,680/950Hp	371-08557-004	5528560	8
	Cover, Motor Term Box, 680Hp	071-08551-004	5528542	
	Gskt, Cover, Mtr Term Box, 680Hp	071-08552-003	5528544	
	Gasket, Bellows, Motor Term Box, 950Hp-Y	071-08552-101	5515278	
	Gasket, Mtr Hsg, Motor Term Box, 950Hp-Y	071-08552-204	5515279	
1	Assy-Motor Term Box, 950Hp-1020VSD	371-08559-001	5558943	8
	Cover, Mtr Term Box, 950Hp	071-08551-005	5558940	
	Gskt, Cover, Mtr Term Box, 950Hp	071-08552-006	5558941	
	Gasket, Bellows, Motor Term Box, 950Hp-Y	071-08552-101	5515278	
	Gskt, Mtr Hsg, Mtr Term Box, 680Hp	071-08552-202	5528545	
1	Base,Mtr Term Box,680/950Hp	371-08557-401	5528563	8
	Base,Mtr Term Box,680/950Hp	071-08557-401	5528551	
1	Assy-Base, Motor Term Box, 950Hp	371-08559-101	5558944	8
	Base, Motor Term Box, 950Hp	071-08559-101	5558942	
1	Assy-Cover, Bellows, Motor Term Box, 8"	371-08553-101	5515283	8
	Cover, Bellows, Motor Term Box, 950Hp	071-08553-101	5515280	
2	Harness, Bar, Flex Bus	392-62928-836	5457006	8
		392-62928-840	5457008	
		392-62928-844	5457010	
3	Harness, 4/0 Gnd Motor	392-62928-948	5457033	8
		392-62928-952	5519136	
	Wire Elec 4/0 Awg Black	025-32913-000	738768	
	Term, Ring Tongue 3/8 In., 4/0	025-34204-000	739032	
	Lug Wire 4/0Awg Ring Terminal 180.0°	025-47744-000	5184424	
4	Top Cover Assy, Bus Bar VSD 8"	371-08007-001	5404287	8
	Top Cover, Bus Bar VSD 8"	071-08006-001	5404284	
11	Assy-Bellows, 8" Left	371-08554-101	5515284	8
	Raceways Flexible L=0.30M W=203.2Mm	023-25888-000	995459	
12	Assy-Support, Motor Term Box, 950Hp	371-08550-401	5515282	8
	Sprt,Mtr Term Box, 950Hp	071-08550-401	5515275	

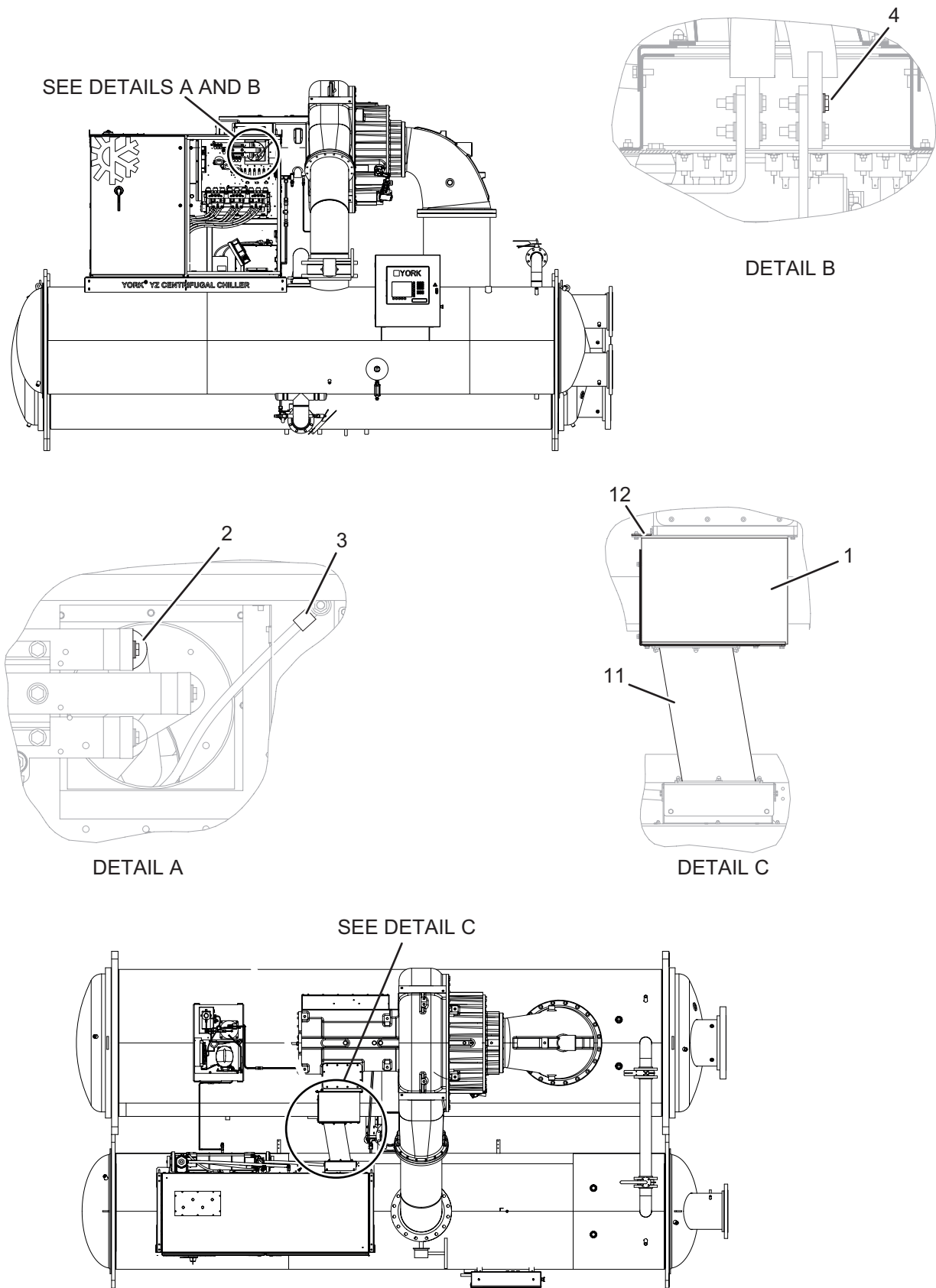
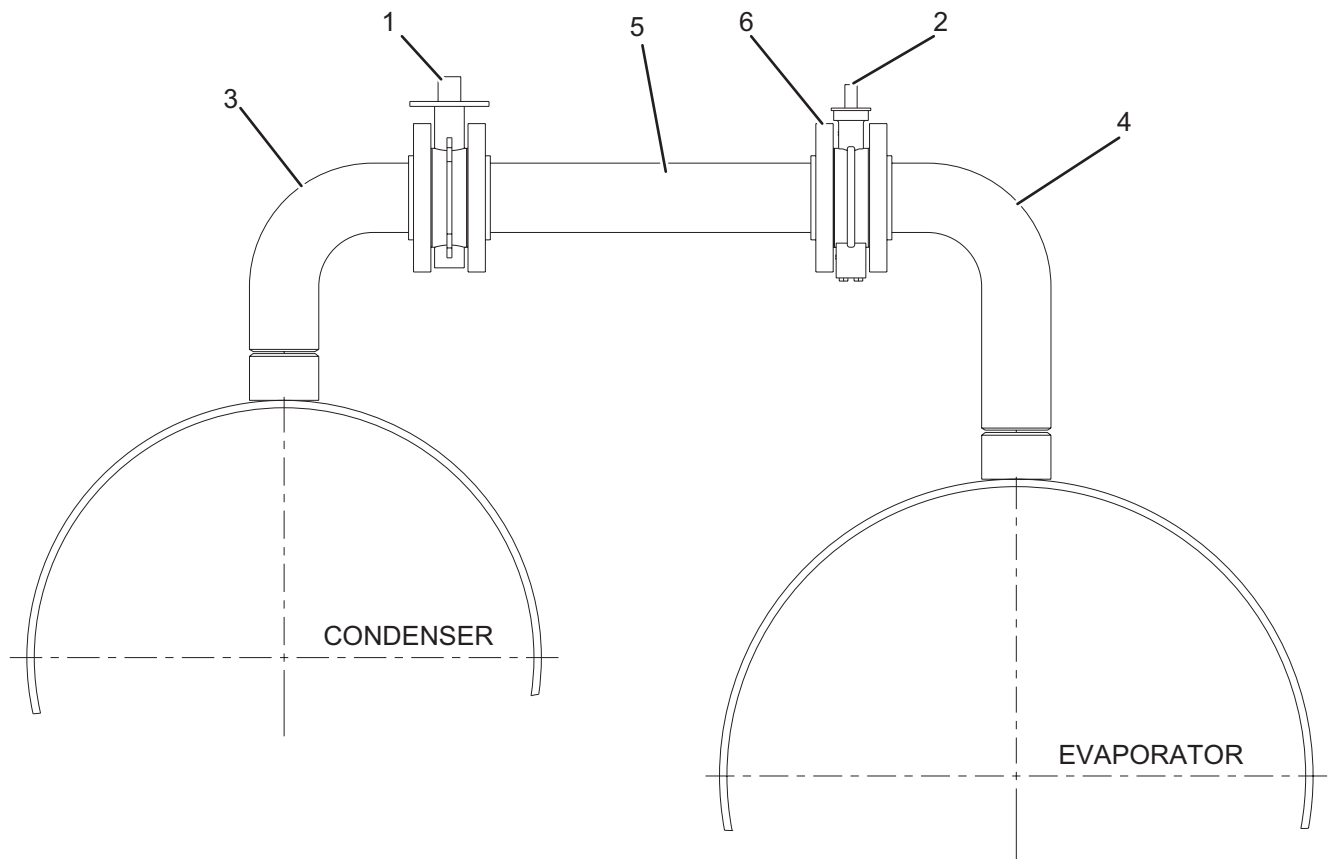


FIGURE 8 - MOTOR WIRING KIT - VSD PYT1280A

LD28104

TABLE 10 - HOT GAS KIT

ITEM	CONDENSER CODE	EVAPORATOR CODE	DESCRIPTION	PART NUMBER	SAP NUMBER	QTY	FIGURE
1	FB29, FA33, FA39, FB48, FB56	SA25, CA25, SA33, CA33, SA39, SA44	Valve ISLN BTFL LVR 3in FLG fix DI	022-10641-503	5487911	1	9
	FB48	CA39	Valve ISLN BTFL LVR 4in FLG fix DI	022-10641-004	5411882	1	
2	All	All	Valve ISLN BTFL Stem 3in FLG fix DI	022-10643-003	617137	1	9
3	All	All	Conn. 3" Hot Gas	392-55618-001	5427244	1	9
4	FB29, FA33	SA25, CS25	Conn. 3" Hot Gas	392-55618-002	5427245	1	9
	FA33	SA33		392-55618-003	5427246		
	FA39	SA33		392-55618-004	5427247		
	FA39	CA33	Conn. 4" Hot Gas	392-52471-003	5441982		
	FA39	SA39	Conn. 4" Hot Gas	392-52471-004	5441984		
	FB48	SA44		392-52471-002	5441980		
	FB48	SA39	Conn. 4" Hot Gas	392-52471-002	5441980		
	FB56	SA44	Conn. Pipe, Hot Gas, 4"	392-57599-000	5462298		
	FB48	CA39		392-57599-000	5462298		
5	FB29	SA25	Conn. 3" Hot Gas	392-51396-001	5427240	1	9
	FA33	SA25, CA25		392-51396-002	5427241		
	FA33	SA33		392-51396-003	5427242		
	FA33	SA33		392-51396-004	5427243		
	FA39	CA33	Conn. 4" Hot Gas	392-52468-001	5441968		
	FA39	SA39		392-52468-002	5441970		
	FA39	SA39		392-52468-003	5441972		
	FB48	CA39	Conn. Pipe, Hot Gas, 4"	392-57597-001	5462297		
	FB48	SA44	Conn. 4" Hot Gas	392-52468-004	5441974		
	FB56	SA44		392-52468-005	5441976		
6	All	All	Flange RD RF 150# S/O 3.00"	023-03610-000	731701	1	9

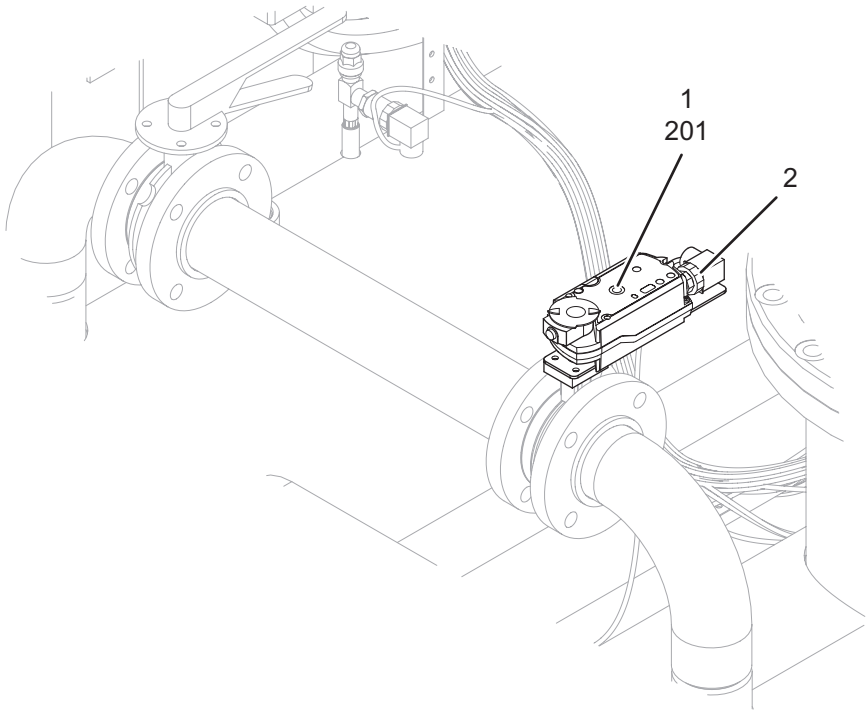


LD28057

FIGURE 9 - HOT GAS KIT

TABLE 11 - HOT GAS WIRING KIT

ITEM	DESCRIPTION	PART NUMBER	SAP NUMBER	FIGURE
1	Kit, Actuator Nema 1 OR 2, 132 IN-LB MAX	325-47580-001	5543416	10
2	Harness Hot Gas Bypass	392-51870-903	5418826	10
	Wire 3 Condtr W/Foil Shield	025-28701-003	144750	
	Connector ISO 4400/DIN	025-37877-000	144714	
201	Actuator Rotary Elec Max=41N/m 95° 24	025-47580-000	5147836	10



LD28098

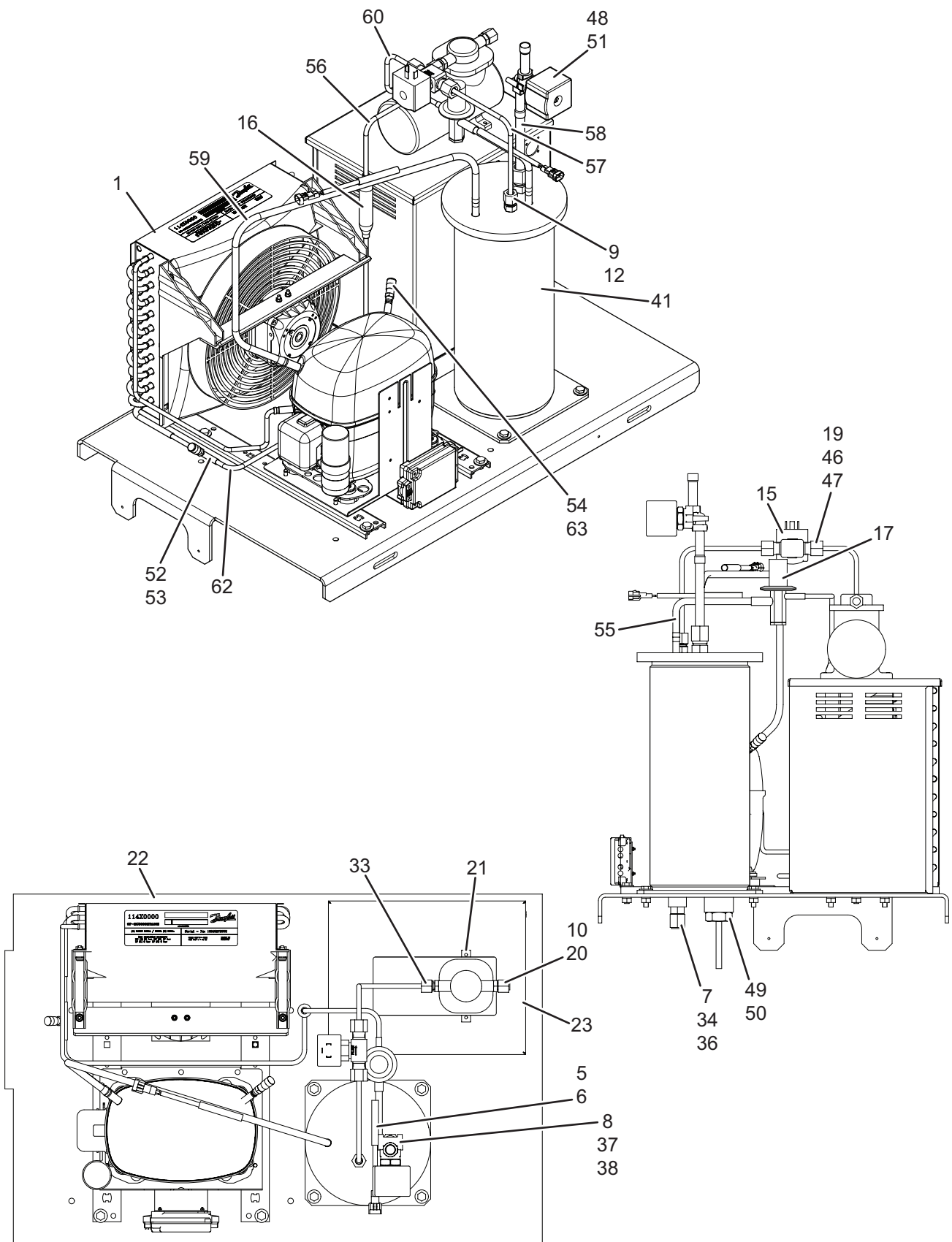
FIGURE 10 - HOT GAS WIRING KIT

TABLE 12 - PURGE UNIT

ITEM	HZ	DESCRIPTION	PART NUMBER	SAP NUMBER	QTY	FIGURE
1	50/60	Condensing Unit	026-50545-000	5411278	1	11
2	50/60	Purge Tank Weldment	392-51921-000	5374327	1	12
5	50/60	Sensor Temp NTC -40 to 110°C	025-47673-000	5167566	2	11
6	50/60	Strap, Copper; Sporlan P/N	025-38156-000	739563	2	11
7	50/60	Connector ORF(M) 11/16 In ORB(M) 9/16 In	023-18976-000	146242	1	11
8	50/60	Connector ORF(M) 13/16 In ORB(M) 3/4 In	023-18983-000	146249	1	11
9	50/60	Connector ORF(M) 9/16 In ORB(M) 7/16 In	023-18993-000	146253	1	11
10	50/60	Cap Tube ORF(F) STL 9/16 In N/A	023-19006-000	146195	1	11
12	50/60	Sleeve Orfmap 1/4 In. Steel	023-19076-000	116355	2	11
13	50/60	Union Fusible BR NPT OD=0.250In Max=75°C	023-27812-000	5451152	1	12
14	50/60	Adapter ORF(M) 13/16 In SLDF 1/2 In Steel	023-27656-000	5416724	1	12
15	50/60	Valve Solenoid	025-47111-003	1183272	1	11
16	50/60	Copper Solid Core Liquid Line Drier	025-49213-000	5312033	1	11
17	50/60	Valve Constant Pressure (Automatic)	025-49215-000	5312034	1	11
19	50/60	O-Ring Neo1 00.364Id .070 Thk M	028-12961-012	618648	5	11
20	50/60	O-Ring Neo1 00.301Id .070 Thk M	028-12961-011	690350	3	11
21	50/60	Pump Vacuum Excl Mot 1.2M3/H 26553Pa	026-50252-000	5312036	1	11
22	50/60	Base, Purge, Finish Painted	392-68849-000	5451157	1	11
23	50	Encl Elec H=304.80mm W=279.40mm	071-08611-002	5411279	1	11
	60	Encl Elec H=177.80mm W=258.92mm CS	071-08611-001	5402824		
33	50/60	Connector Comp 1/4In NPT(M) 1/8In Steel	023-27228-000	5312030	2	11
34	50/60	O-Ring Size=906 1.98 11.89mm Neo1 N N/A	028-12961-003	588818	1	11
35	50/60	Valve Check Poppet 3/8In Thd Br 800 PSI	022-11329-000	731367	1	12
36	50/60	Cap Tube Orf(F) Stl 11/16In N/A	023-19007-000	146655	1	11
37	50/60	Sleeve Orfmap 1/2In. SS	023-20827-003	733340	1	11
38	50/60	O-Ring Neo1 00.489Id .070 Thk M	028-12961-013	618649	2	11
41	50/60	Ins Thermal 3/4 Thick	010-05997-000	728830	1	11
43	50/60	Fitting, Liquid-Tight Cordgrip	025-43523-000	740321	2	12
45	50/60	Ins Pipe Thermal Od 9.53mm / 3/8In	010-03473-000	5312027	1	12
46	50/60	Sleeve, Reducing Sst 3/8 to 1/4 Od	023-27632-001	5402822	4	11
47	50/60	Tube Nut Orf(F) 11/16In. Steel	023-18977-000	146243	4	11
48	50/60	Sol Coil 120V Ac 1P 50/60Hz 15.0W	025-35151-001	5500984	1	11
49	50/60	O-Ring Size=912 2.95 23.47mm Neo1 N N/A	028-12961-006	588821	1	11
50	50/60	Switch Float 5.0V 0.00A	024-30901-200	5374317	1	11
51	50/60	Valve Sol No 1/2In Br	023-27641-000	5402823	1	11
52	50	Tee, Schrader Valve 1/4"	022-13439-000	5411277	1	11
	60	Tee Sld C X C X C 1/4 X	023-04606-000	371718		
53	60	Tee Sld C X C X C 3/8 X	023-10014-000	732227	1	11
54	50	Valve Check Schrader 1/4In Sw Br 850 PSI	022-13435-000	5402819	1	11
55	50	Tube, Purge Liquid Line	092-61759-010	5411282	1	11
	60	Tube, Purge Liquid Line	092-51922-010	5402825		
56	50	Tube, Purge Liquid Line	092-61759-011	5411283	1	11
	60	Tube, Purge Liquid Line	092-51922-011	5402826		

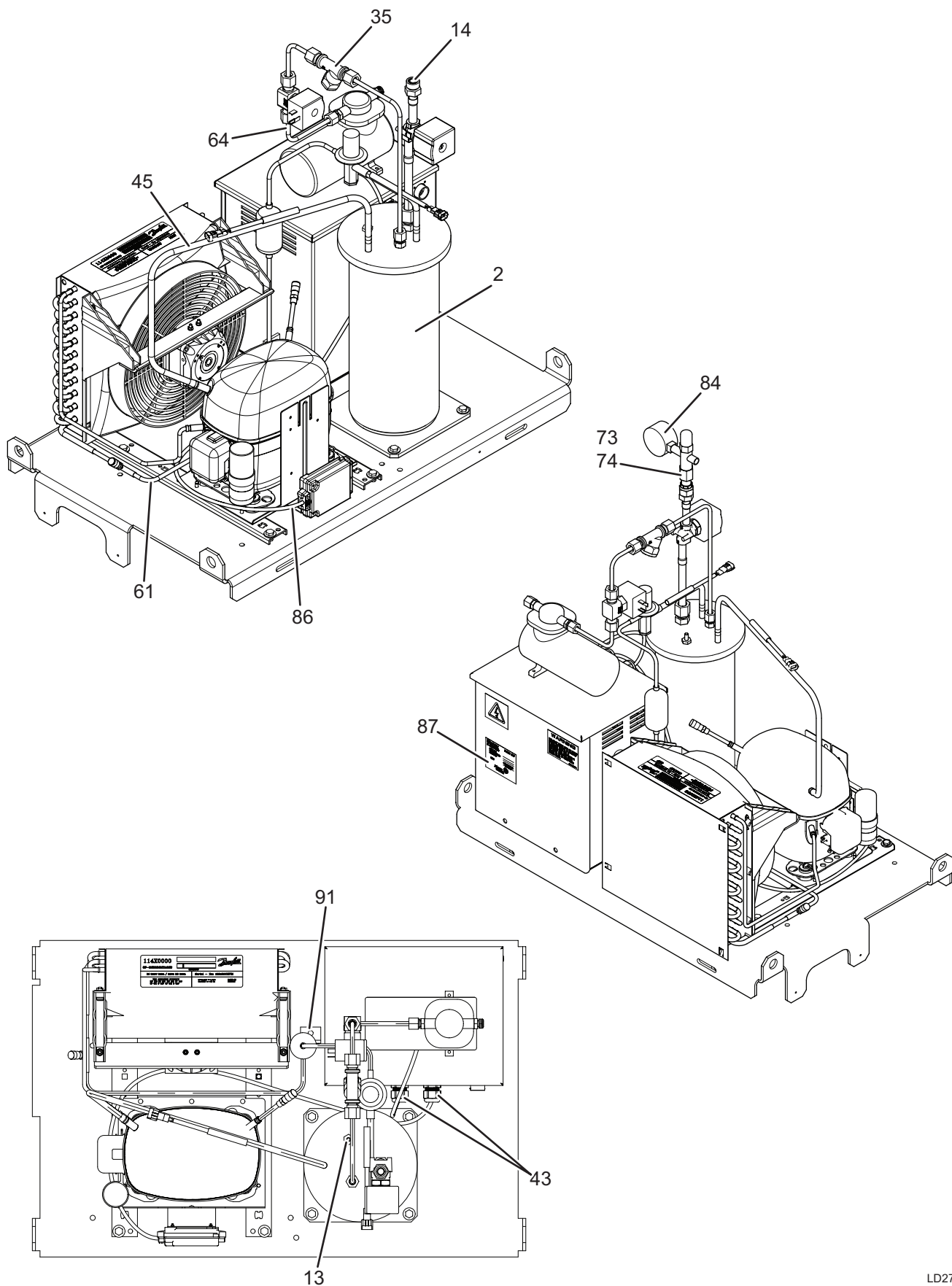
TABLE 12 - PURGE UNIT (CONT'D)

ITEM	HZ	DESCRIPTION	PART NUMBER	SAP NUMBER	QTY	FIGURE
57	50	Tube, Purge Pump Out	092-61759-012	5411285	1	11
	60	Tube, Purge Pump Out	092-51922-012	5402827		
58	50	Tube, Purge Inlet	092-61759-013	5411286	1	11
	60	Tube, Purge Pump Out	092-51922-013	5402828		
59	50	Tube, Purge Suction	092-61759-014	5411287	1	11
	60	Tube, Purge Inlet	092-51922-014	5402829		
60	50	Tube, Purge Pump Out	092-61759-015	5411288	1	11
	60	Tube, Purge Suction	092-51922-015	5402830		
61	50	Tube, Purge Liquid Line	092-61759-017	5411289	1	12
	60	Tube, Purge Liquid Line	092-51922-016	5402831		
62	50	Tube, Purge Liquid Line	092-61759-019	5411290	1	11
	60	Tube, Purge Process	092-51922-017	5451154		
63	50	Tube, Purge Relief	092-61759-020	5476133	1	11
	60	Tube, Purge Pump Out	092-51922-018	5524926		
64	50/60	Tube, Purge Pump Out	092-61759-021	5524928	1	12
73	50/60	Adapter Orb(F) 1/2 In NPT(F) 1/4 In Steel	023-27819-000	5451153	1	12
74	50/60	Valve, Transducer 1/4 NPTE X	022-09539-000	588688	1	
75	50/60	Ins Therm 1/2 Id X 3/4	010-03800-000	148271	2	
76	50/60	Ins Therm 3/4 Id X 3/4	010-03801-000	728793	1	
77	50/60	Ins Therm 1-1/8 Id X 3/4	010-03815-000	148272	1	
78	50/60	Ins Therm 1-5/8 Id X	010-05145-000	728803	1	
84	50/60	Gauge Press 2 Dia 0-30	026-18920-000	588780	1	12
85	50/60	Gas Liquefied R-404A Tank Kg	011-01239-000	216963	14	
86	50/60	Harness, 50Hz Purge to Condensing Unit	392-61759-100	5476135	1	12
		Cable W=3 16 Awg 300V Wo/Earth Unshielded	025-50413-000	5476130	4.5	
		Term Wire 16-14 Awg	025-20519-000	737558	3	
87	50/60	Nameplate, Purge	029-27730-000	5476131	1	12
90	50/60	Dia, Wiring 50Hz Purge Cond Unit	035-26662-003	5476132	1	
91	50/60	Support, Liq Line Purge	093-02807-000	5585226	1	12



LD27384

FIGURE 11 - PURGE UNIT

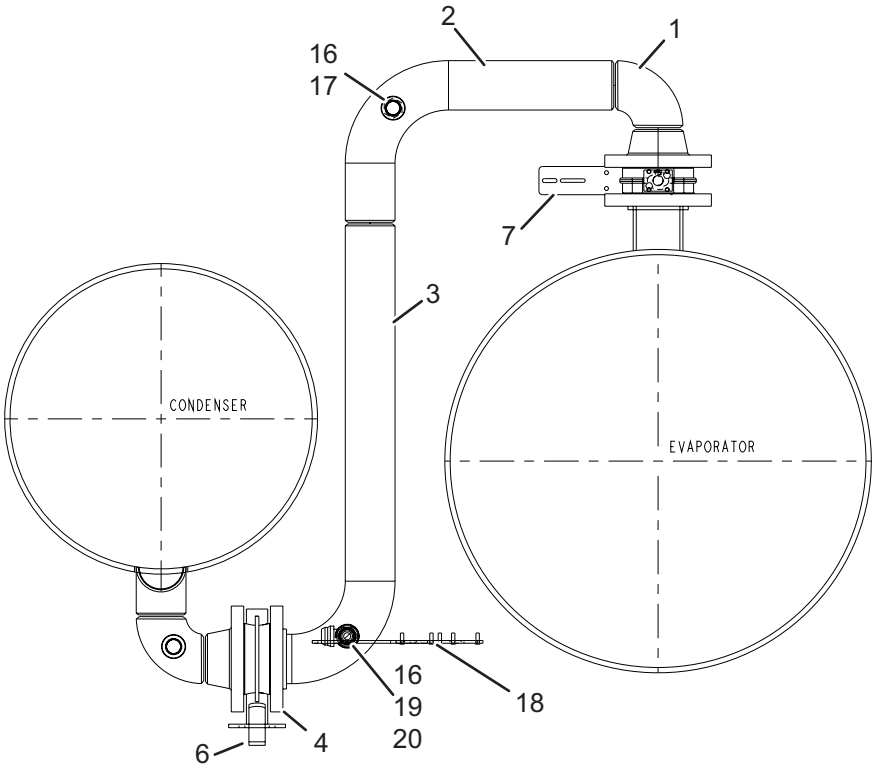


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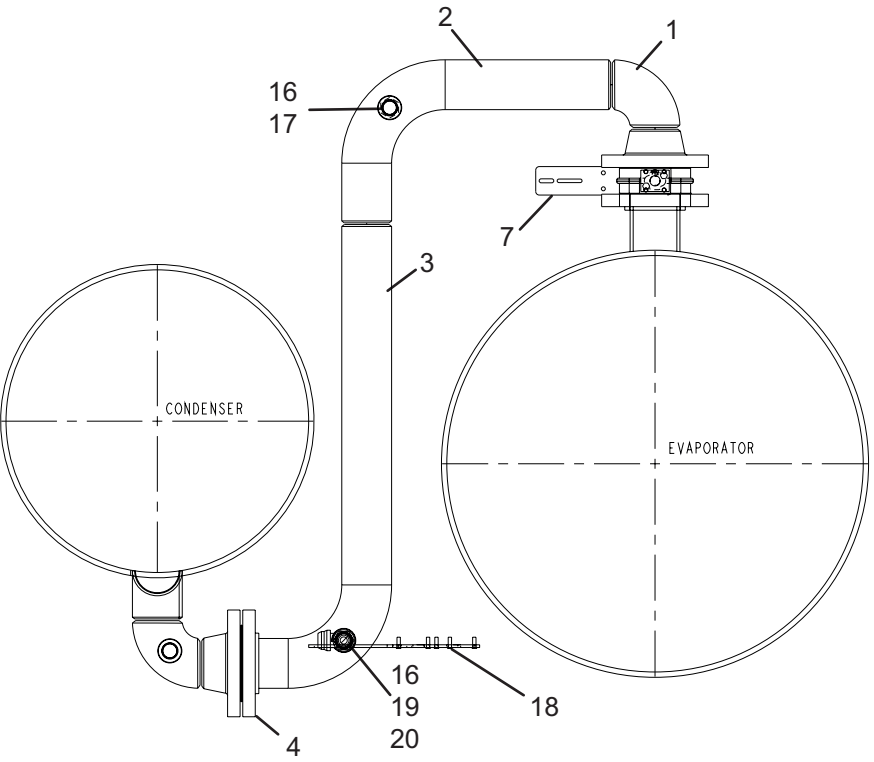
FIGURE 12 - PURGE UNIT

TABLE 13 - LIQUID LINE (MOTOR - MA033AA AND MA041AA)

ITEM	CONDENSER CODE	EVAPORATOR CODE	DESCRIPTION	PART NUMBER	SAP NUMBER	ISOLATION VALVE Y/N	FIGURE
1	CA21, SA25	FB29, FA33	Connection, 3 Liquid Line	392-52458-000	5411896	Both	13, 14
	CA25, SA33	FA33, FA39	Connection, 4" Liquid Line	392-51436-000	5417538	Yes	
	CA25	FA33				No	
2	CA21	FB29	Connection, 3 Liquid Line	392-52459-001	5411897	Both	13, 14
	SA25	FB29		392-52459-003	5411898		
	SA25	FA33		392-52459-005	5411899		
	CA25, SA33	FA33	Connection, 4" Liquid Line	392-57518-001	5417539	Both	
	SA33	FA39		392-57518-002	5417540		
3	CA21	FB29	Connection, 3 Liquid Line	392-87537-001	5533993	Both	13, 14
	SA25	FB29, FA33		392-87537-003	5533994		
	CA25	FA33	Connection Liquid Line 4"	392-92849-001	5557515	Both	
	SA33	FA33		392-92849-005	5557517		
	SA33	FA39		392-92849-003	5557516		
4	CA21, SA25	FB29, FA33	Flange Rd Rf 150# S/O 3.00"	023-03610-000	731701	Both	13, 14
	CA25	FA33	Flange Rd Rf 150# S/O 4.00"	023-02357-000	731570	Yes	
	CA25, SA33	FA33, FA39				No	
6	CA21, SA25	FB29, FA33	Valve IsIn Btfl Lvr 3In Flgfix DI	022-10641-503	5487911	Yes	13, 14
	CA25	FA33	Valve IsIn Btfl Lvr 4In Flgfix DI	022-10641-504	5487912		
7	CA21, SA25	FB29, FA33	Valve IsIn Btfl Stem 3In Flgfix DI	022-10642-003	617133	Both	13, 14
	CA25	FA33	Valve IsIn Btfl Stem 4In Flgfix DI	022-10642-004	617134	Yes	
	CA25, SA33	FA33, FA39				No	
15	All	All	Gasket Fla 3/4 Od Tube	028-09211-000	618602	Both	13, 14
16	All	All	O-Ring Size=912 2.95 23.47MM NEO1 N N/A	028-12961-006	588821	Both	13, 14
17	CA25, SA33	FA33	Support, Pump	092-87536-001	5539141	Both	13, 14
	SA33	FA33		092-87536-003	5557514		
18	CA21, SA33	FB29, FA39	Support Assy, Pump, Motor Cooling	392-90196-001	5533995	Yes	13, 14
	CA21	FB29				No	13, 14
	SA25	FB29		392-90196-002	5533996	Both	13, 14
19	CA21, SA25	FB29, FA33	Valve IsIn Ball Sc 1-1/16In Conmix Br	022-09757-000	62507	Both	13, 14
20	CA21, SA25	FB29, FA33	Cap Flare 3/4 OD Tube	023-00984-000	617242	Both	13, 14



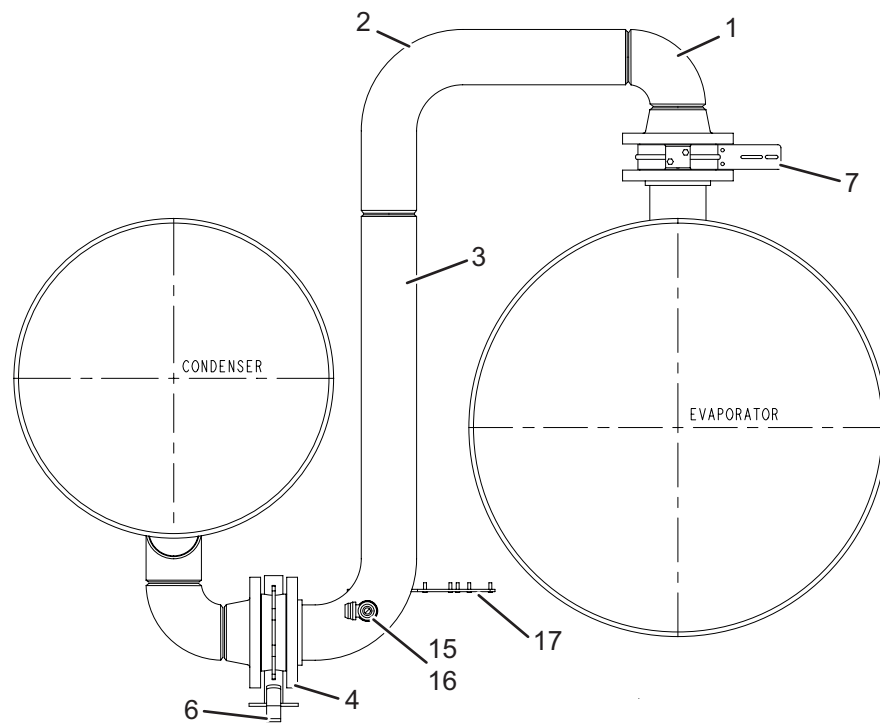
WITH ISOLATION VALVE



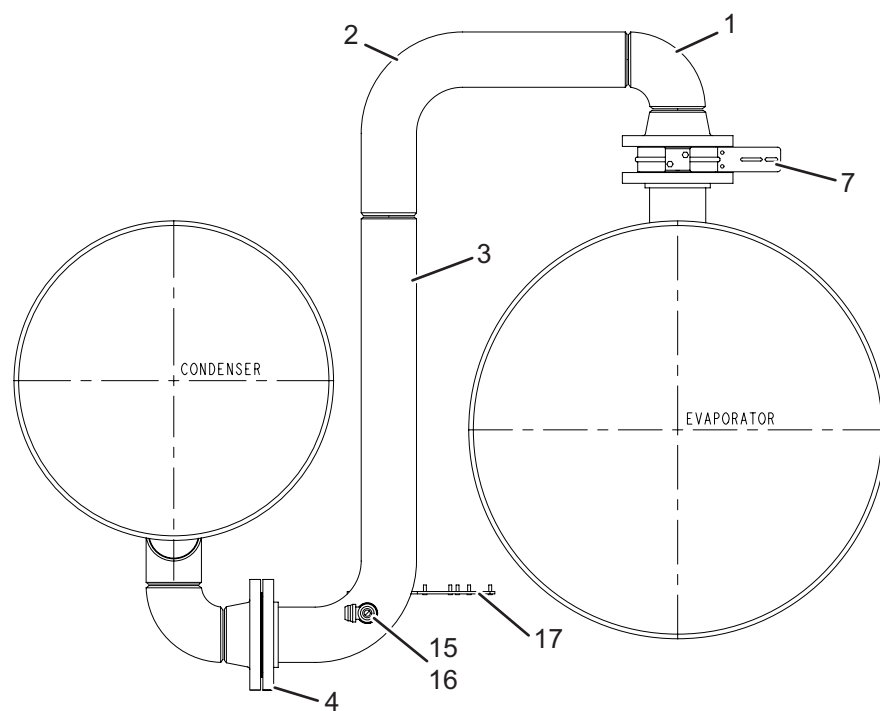
WITHOUT ISOLATION VALVE

LD28060

FIGURE 13 - LIQUID LINE (MOTOR - MA033AA)



WITH ISOLATION VALVE



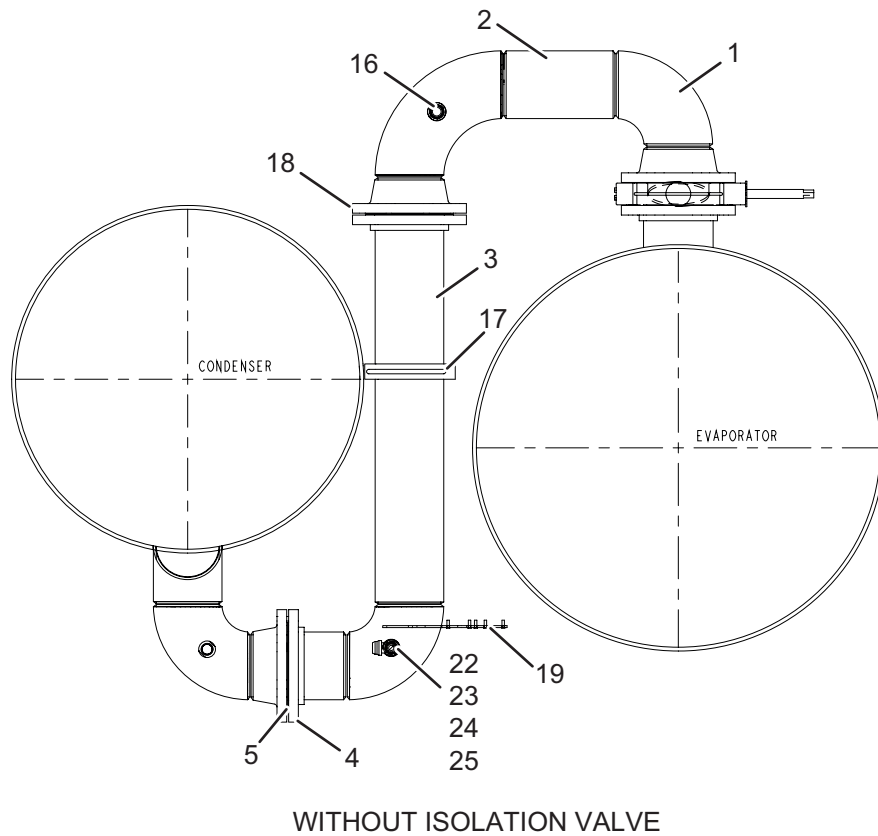
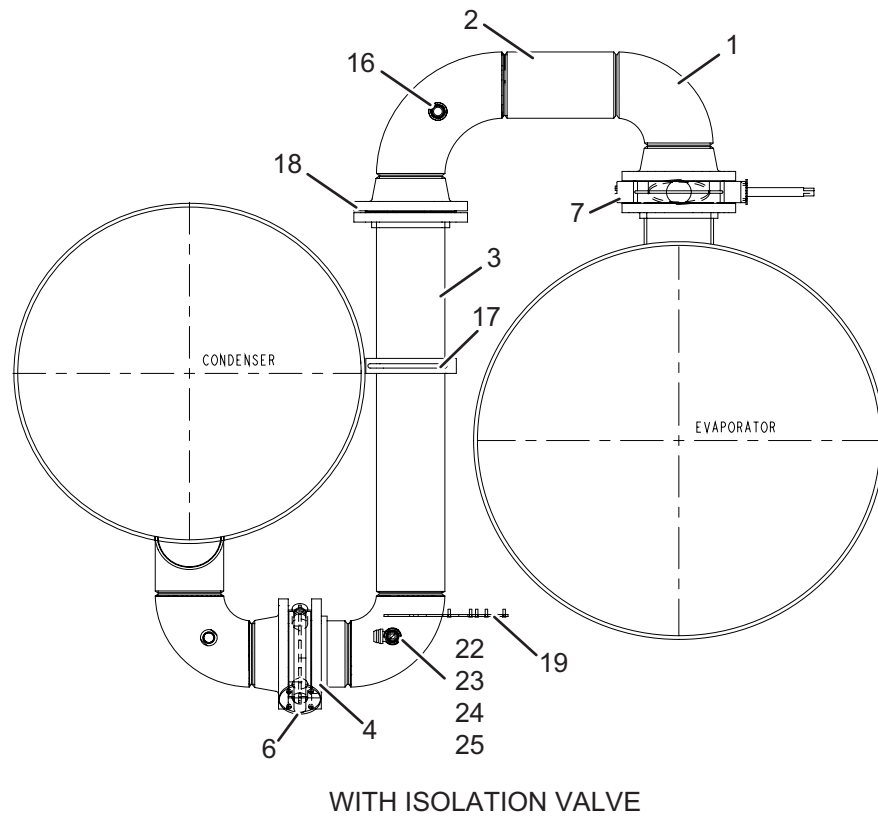
WITHOUT ISOLATION VALVE

LD28096

FIGURE 14 - LIQUID LINE (MOTOR - MA041AA)

TABLE 14 - LIQUID LINE (MOTOR - MA068AA AND MA095AA)

ITEM	CONDENSER CODE	EVAPORATOR CODE	DESCRIPTION	PART NUMBER	SAP NUMBER	ISOLATION VALVE Y/N	FIGURE
1	All	All	Connection, 6" Liquid Line	392-56708-000	5440977	Both	15
2	CA33, SA39	FA39	Assy, 6" Liquid Line	392-56709-001	5440978	Both	15
	SA39, CA39, SA44	FB48		392-56709-002	5440979		
	SA44	FB56		392-56709-003	5453444		
3	CA33, SA39	FA39	Connection, 6" Liquid Line	392-56711-001	5440980	Both	15
	SA39, CA39	FB48		392-56711-002	5440981		
	SA44,	FB48		392-56711-003	5453445		
	SA44	FB56		392-56711-004	5453446		
4	CA33	FA39	Connection, 6" Liquid Line	392-57533-002	5440983	Yes	15
	SA39, CA39	FA39, FB48		392-57533-004	5440985		
	SA44,	FB48, FB56		392-57533-006	5453448		
	CA33	FA39		392-57533-001	5440982	No	
	SA39, CA39	FA39,FB48		392-57533-003	5440984		
	SA44,	FB48, FB56		392-57533-005	5453447		
5	All	All	Gasket Round Dn=8-3/4In CI150	028-15075-012	705347	Both	15
6	All	All	Valve IsIn Btfl Lvr 6In Flgfix DI	022-10641-506	5216070	Both	15
7	All	All	Valve IsIn Btfl Stem 6In Flgfix CI	022-10642-106	5440960	Yes	15
16	All	All	O-Ring Size=916 2.95 29.74MM NEO1 N N/A	028-12961-008	588822	Both	15
17	All	All	Bracket, Support	092-57570-000	5453439	Both	15
18	All	All	Flange Rd Rf 150# S/O 6.00"	023-02360-000	146818	Both	15
19	All	All	Support, Pump	092-87536-001	5539141	Both	15
22	All	All	Valve IsIn Ball Sc 1-1/16In Conmix Br	022-09757-000	62507	Both	15
23	All	All	O-Ring Size=912 2.95 23.47MM NO1 N N/A	028-12961-006	588821	Both	15
24	All	All	Cap Flare 3/4 OD Tube	023-00984-000	617242	Both	15
25	All	All	Gasket Fla 3/4 OD Tube	028-09211-000	618602	Both	15



LD28097

FIGURE 15 - LIQUID LINE (MOTOR - MA068AA AND MA095AA)

TABLE 15 - EVAPORATOR TUBES

UL ASME/ CE PED							
EVAP	EVAP BUNDLE CODE	LENGTH	TUBE COUNT	EVAP TUBES 641 (3/4" .025WALL)	EVAP TUBES 642 (3/4" .028WALL)	EVAP TUBES 646 (1" .025WALL)	EVAP TUBES 647 (1" .028WALL)
FB29	A2Z	10	288	007-21211-101	007-21211-201	N/A	N/A
		12		007-21211-102	007-21211-202		
	A3R	10	241	007-21211-101	007-21211-201		
		12		007-21211-102	007-21211-202		
	A3D	10	166	007-21211-101	007-21211-201		
	12Z	10	151	N/A	N/A	007-21211-301	007-21211-401
		12				007-21211-302	007-21211-402
	13O	10	119			007-21211-301	007-21211-401
12		007-21211-302				007-21211-402	
FA33	A2Z	12	309	007-21211-102	007-21211-202	N/A	N/A
		14		007-21211-103	007-21211-203		
	A3S	12	264	007-21211-102	007-21211-202		
		14		007-21211-103	007-21211-203		
	A3R	12	256	007-21211-102	007-21211-202		
	A3O	12	248				
	12Z	12	180	N/A	N/A	007-21211-302	007-21211-402
		14				007-21211-303	007-21211-403
13S	12	153	007-21211-302			007-21211-402	
	14		007-21211-303			007-21211-403	
FA39	A2Z	14	470	007-21211-103	007-21211-203	N/A	N/A
		16		007-21211-104	007-21211-204		
	A3V	14	430	007-21211-103	007-21211-203		
		16		007-21211-104	007-21211-204		
	A3T	14	411	007-21211-103	007-21211-203		
	A3P	14	385				
	12Z	14	222	N/A	N/A	007-21211-303	007-21211-403
		16				007-21211-304	007-21211-404
13U	14	199	007-21211-303			007-21211-403	
	16		007-21211-304			007-21211-404	
FB48	A2Z	16	794	007-21211-104	007-21211-204	N/A	N/A
		18		007-21211-105	007-21211-205		
	A3W	18	733	007-21211-104	007-21211-204		
	A3S	16	675				
	12Z	16	416	N/A	N/A	007-21211-304	007-21211-404
		18				007-21211-305	007-21211-405
	13V	16	382			007-21211-304	007-21211-404
18		007-21211-305				007-21211-405	
FB56	A2Z	18	1058	007-21211-105	007-21211-205	N/A	N/A
	A3X		1000				
	12Z		564	N/A	N/A	007-21211-305	007-21211-405
	13V		513				

TABLE 16 - EVAPORATOR WATERBOX GASKETS (COMPACT)

150 PSI 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
FB29	092-18800-008	N/A	028-16790-000	2,500'	028-16790-000	5,000'
			092-18800-008	N/A	092-18800-008	N/A
FA33	092-18800-011	N/A	028-16790-000	3,000'	028-16790-000	6,000'
			092-18800-011	N/A	092-18800-011	N/A
FA39	092-18800-015	N/A	028-16790-000	3,500'	028-16790-000	7,000'
			092-18800-015	N/A	092-18800-015	N/A
FB48	028-03242-000	26,500'	028-16790-000	4,500'	028-16790-000	8,500'
			028-03242-000	26,500'	028-03242-000	26,500'
FB56	028-03242-000	30,500'	028-16790-000	5,000'	028-16790-000	10,000'
			028-03242-000	30,500'	028-03242-000	30,500'
300 PSI 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
FB29	028-03242-000	16'	028-16790-000	2,500'	028-16790-000	5,000'
			028-03242-000	16,000'	028-03242-000	16,000'
FA33	028-03242-000	18'	028-16790-000	3,000'	028-16790-000	6,000'
			028-03242-000	18,000'	028-03242-000	18,000'
FA39	028-03242-000	21'	028-16790-000	3,400'	028-16790-000	7,000'
			028-03242-000	21,000'	028-03242-000	21,000'
FB48	028-03242-000	26.5'	028-16790-000	4,500'	028-16790-000	8,500'
			028-03242-000	26,500'	028-03242-000	26,500'
FB56	028-03242-000	30.5'	028-16790-000	5,000'	028-16790-000	10,000'
			028-03242-000	30,500'	028-03242-000	30,500'

TABLE 17 - EVAPORATOR WATERBOX GASKETS (MARINE)

150 PSI 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
FB29	028-16790-000	30,500'	028-16790-000	20,500'	028-16790-000	40,500
			092-18800-008	N/A		
FB33	028-16790-000	35,000'	028-16790-000	23,000	028-16790-000	46,000
			092-18800-011	N/A		
FB39	028-16790-000	41,000'	028-16790-000	27,000	028-16790-000	54,000
			092-18800-015	N/A		
FB48	028-03242-000	50,500	028-16790-000	8,000	028-16790-000	16,000
			028-03242-000	38,000	028-03242-000	50,500
FB56	028-03242-000	59,000	028-16790-000	10,000	028-16790-000	19,000
			028-03242-000	44,000	028-03242-000	59,000
300 PSI 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
FB29	028-03242-000	30,500'	028-16790-000	5,000'	028-16790-000	10,000'
			028-03242-000	23,000'	028-03242-000	30,500'
FB33	028-03242-000	35,000'	028-16790-000	6,000'	028-16790-000	11,000'
			028-03242-000	26,000'	028-03242-000	35,000'
FB39	028-03242-000	41000'	028-16790-000	6,500'	028-16790-000	13,000'
			028-03242-000	31,000'	028-03242-000	41,000'
FB48	028-03242-000	51000'	028-16790-000	8,000'	028-16790-000	16,000'
			028-03242-000	38,000'	028-03242-000	51,000'
FB56	028-03242-000	59000'	028-16790-000	10,000'	028-16790-000	19,000'
			028-03242-000	44,000'	028-03242-000	59,000'

TABLE 18 - CONDENSER TUBES

UL ASME/ CE PED							
EVAP	EVAP BUNDLE CODE	LENGTH	TUBE COUNT	COND TUBES 491 (3/4" .025WALL)	COND TUBES 492 (3/4" .028WALL)	COND TUBES 496 (1" .025WALL)	COND TUBES 497 (1" .028WALL)
CA21	A2Z	10	264	007-21212-104	007-21212-204	N/A	N/A
	A3T		222				
	A3N		190				
	A3J		161				
	12Z		129	N/A	N/A	007-21213-101	007-21213-201
	13O		96				
SA25	A2Z	12	381	007-21212-107	007-21212-207	N/A	N/A
	A2T		322				
	A3O		280				
	A3J		235				
	A3F		198	N/A	N/A	007-21213-103	007-21213-203
	12Z		198				
	12R		156				
	12M		138				
	13F		103				
CA25	A2Z	12	379	007-21212-107	007-21212-207	N/A	N/A
	A3U		326				
	A3O		282				
	12Z		201	N/A	N/A	007-21213-103	007-21213-203
	13N		144				
SA33	A2Z	14	811	007-21212-116	007-21212-215	N/A	N/A
	A3U		690				
	A3I		483				
	A3E		405				
	A3A		320	N/A	N/A	007-21213-107	007-21213-206
	12Z		409				
	12W		377				
	13P		309				
CA33	A2Z	14	678	007-21212-116	007-21212-215	N/A	N/A
	A3T		573				
	A3L		456				
	A3I		407				
	12Z		338	N/A	N/A	007-21213-107	007-21213-206
	13N		239				
SA39	A2Z	16	1064	007-21212-124	007-21212-223	N/A	N/A
	A3S		866				
	A3J		660				
	12Z		551	N/A	N/A	007-21213-113	007-21213-211
	12O		410				
	12M		383				
	12H		317				
	13G		301				
CA39	A2Z	16	993	007-21212-124	007-21213-223	N/A	N/A
	A3T		829				
	A3M		688				
	A3H		569				
	12Z		480	N/A	N/A	007-21213-113	007-21213-211
	12U		420				
	13P		366				
SA44	A2Z	18	1353	007-21212-128	007-21212-226	N/A	N/A
	A3N		960				
	12Z		750	N/A	N/A	007-21213-115	007-21213-214
	13G		412				

TABLE 19 - CONDENSER TUBES (SUB-COOLER)

UL/ ASME							
COND	COND CODE	LENGTH	TUBE COUNT	COND TUBES 491 (3/4" .025WALL)	COND TUBES 492 (3/4" .028WALL)	COND TUBES 496 (1" .025WALL)	COND TUBES 497 (1" .028WALL)
CA21	A2Z, A3T, A3N, A3J	10	32	007-21212-104	007-21212-204	N/A	N/A
	N/A			N/A	007-21212-104	007-21212-204	
SA25	A2Z, A2T, A3O, A3J, A3F	12	32	007-21212-107	007-21212-207	N/A	N/A
	N/A			N/A	007-21212-107	007-21212-207	
CA25	A2Z, A3U, A3O	12	49	007-21212-107	007-21212-207	N/A	N/A
	N/A			N/A	007-21212-107	007-21212-207	
SA33	A2Z, A3U, A3I, A3E, A3A	14	49	007-21212-116	007-21212-215	N/A	N/A
	N/A			N/A	007-21212-116	007-21212-215	
CA33	A2Z, A3T, A3L, A3I	14	124	007-21212-116	007-21212-215	N/A	N/A
	N/A			N/A	007-21212-116	007-21212-215	
SA39	A2Z, A3S, A3J	16	124	007-21212-124	007-21212-223	N/A	N/A
	12Z, 12O, 12M, 12H, 13G			N/A	N/A	007-21212-124	007-21212-223
CA39	A2Z, A3T, A3M, A3H	16	180	007-21212-124	007-21212-223	N/A	N/A
	12Z, 12U, 13P			N/A	N/A	007-21212-124	007-21212-223
SA44	A2Z, A3N	18	180	007-21212-128	007-21212-226	N/A	N/A
	12Z, 13G			N/A	N/A	007-21212-128	007-21212-226
CE/PED							
COND	COND CODE	LENGTH	TUBE COUNT	COND TUBES 491 (3/4" .025WALL)	COND TUBES 492 (3/4" .028WALL)	COND TUBES 496 (1" .025WALL)	COND TUBES 497 (1" .028WALL)
CA21	A2Z, A3T, A3N, A3J	10	32	N/A	N/A	007-21212-104	007-21212-204
	12Z, 13O			007-21212-107	007-21212-207	N/A	N/A
SA25	A2Z, A2T, A3O, A3J, A3F	12	32	N/A	N/A	007-21212-107	007-21212-207
	12Z, 12R, 12M, 13F			007-21212-107	007-21212-207	N/A	N/A
CA25	A2Z, A3U, A3O	12	49	007-21212-107	007-21212-207	N/A	N/A
	12Z, 13N			N/A	N/A	007-21212-107	007-21212-207
SA33	A2Z, A3U, A3I, A3E, A3A	14	49	007-21212-116	007-21212-215	N/A	N/A
	12Z, 12W, 13P			N/A	N/A	007-21212-116	007-21212-215
CA33	A2Z, A3T, A3L, A3I	14	124	007-21212-116	007-21212-215	N/A	N/A
	12Z, 13N			N/A	N/A	007-21212-116	007-21212-215
SA39	A2Z, A3S, A3J	16	124	007-21212-124	007-21212-223	N/A	N/A
	12Z, 12O, 12M, 12H, 13G			N/A	N/A	007-21212-124	007-21212-223
CA39	A2Z, A3T, A3M, A3H	16	180	007-21212-124	007-21212-223	N/A	N/A
	12Z, 12U, 13P			N/A	N/A	007-21212-124	007-21212-223
SA44	A2Z, A3N	18	180	007-21212-128	007-21212-226	N/A	N/A
	12Z, 13G			N/A	N/A	007-21212-128	007-21212-226

TABLE 20 - CONDENSER WATERBOXES GASKETS (COMPACT)

150 PSI COMPACT WATERBOX						
COND 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
CA21	092-18800-003	2'	028-16790-000	2'	028-16790-000	4'
			092-18800-003		092-18800-003	2'
SA25, CA25	092-18800-006	2'	028-16790-000	2.5'	028-16790-000	4.5'
			092-18800-006	2'	092-18800-006	2'
SA33, CA33	092-18800-011	2'	028-16790-000	3'	028-16790-000	6'
			092-18800-011	2'	092-18800-011	2'
SA39, CA39	092-18800-015	2'	028-16790-000	3.5'	028-16790-000	7'
			092-18800-015	2'	092-18800-015	2'
SA44	092-18800-016	2'	028-16790-000	4'	028-16790-000	8'
			092-18800-016	2'	092-18800-016	2'
300 PSI COMPACT WATERBOX						
COND 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
CA21	028-03242-000	12'	028-16790-000	2'	028-16790-000	4'
			028-03242-000	12'	028-03242-000	12'
SA25, CA25	028-03242-000	14'	028-16790-000	2.5'	028-16790-000	4.5'
			028-03242-000	14'	028-03242-000	14'
SA33, CA33	028-03242-000	18'	028-16790-000	3'	028-16790-000	6'
			028-03242-000	18'	028-03242-000	18'
SA39, CA39	028-03242-000	21'	028-16790-000	3.5'	028-16790-000	7'
			028-03242-000	21'	028-03242-000	21'
SA44	028-03242-000	23.5'	028-16790-000	4'	028-16790-000	8'
			028-03242-000	23.5'	028-03242-000	23.5'

TABLE 21 - CONDENSER WATERBOXES GASKETS (MARINE)

150 PSI MARINE WATERBOX						
COND 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
CA21	028-16790-000	22'	028-16790-000	15'	028-16790-000	29'
			092-18800-003	1'		
SA25, CA25	028-16790-000	27'	028-16790-000	24'	028-16790-000	35'
			092-18800-006	1'		
SA33, CA33	028-16790-000	35'	028-16790-000	23'	028-16790-000	46'
			092-18800-011	1'		
SA39, CA39	028-16790-000	41'	028-16790-000	27'	028-16790-000	54'
			092-18800-015	1'		
SA44	028-16790-000	54'	028-16790-000	30.5'	028-16790-000	61'
			092-18800-016	1'		
300 PSI MARINE WATERBOX						
COND 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
CA21	028-03242-000	22'	028-03242-000	22'	028-16790-000	7'
					028-03242-000	22'
SA25, CA25	028-03242-000	27.5'	028-16790-000	4.5'	028-16790-000	8.5'
			028-03242-000	20'	028-03242-000	27.5'
SA33, CA33	028-03242-000	35'	028-16790-000	5.5'	028-16790-000	11'
			028-03242-000	26'	028-03242-000	35'
SA39, CA39	028-03242-000	41'	028-16790-000	6.5'	028-16790-000	13'
			028-03242-000	31'	028-03242-000	41'
SA44	028-03242-000	46.5'	028-16790-000	7.5'	028-16790-000	15'
			028-03242-000	35'	028-03242-000	46.5'

TABLE 22 - SYSTEM PIPING

ITEM	EVAP CODE	COND CODE	DESCRIPTION	PART NUMBER	SAP NUMBER	FIGURE
1	All	All	Union ORFSW 1-3/16in ORFSW 1-3/16in	023-22131-000	5293421	16
2	FB29	CA21	Tube, Purge Suction, Solenoid	092-51406-004	5416727	18
	FB29	SA25		092-51407-004	5464041	
	FA33	SA25		092-51410-004	5464048	
	FA33	CA25		092-51400-004	5440822	
	FA33	SA33		092-51421-004	5464069	
	FA39	SA33		092-51417-004	5440855	
	FA39	CA33		092-51413-004	5467807	
	FA39	SA39		092-51423-004	5464079	
	FB48	SA39		092-51425-004	5464088	
	FB48	CA39		092-51402-004	5475497	
	FB48	SA44		092-51411-004	5473695	
	FB56	SA44		092-51419-004	5467821	
3	FB29	CA21	Tube, Purge Drain, Condenser	092-51406-005	5416729	18
	FB29	SA25		092-51407-005	5464042	
	FA33	SA25		092-51410-005	5464049	
	FA33	CA25		092-51400-005	5440823	
	FA33	SA33		092-51421-005	5464071	
	FA39	SA33		092-51417-005	5440856	
	FA39	CA33		092-51413-005	5467808	
	FA39	SA39		092-51423-005	5464080	
	FB48	SA39		092-51425-005	5464089	
	FB48	CA39		092-51402-005	5475498	
	FB48	SA44		092-51411-005	5473696	
	FB56	SA44		092-51419-005	5467822	
4	FB29	CA21	Tube, Purge Drain, Tank	092-51406-006	5416731	18
	FB29	SA25		092-51407-006	5464043	
	FA33	SA25		092-51410-006	5464050	
	FA33	CA25		092-51400-006	5440824	
	FA33	SA33		092-51421-006	5464073	
	FA39	SA33		092-51417-006	5440857	
	FA39	CA33		092-51413-006	5467809	
	FA39	SA39		092-51423-006	5464081	
	FB48	SA39		092-51425-006	5464090	
	FB48	CA39		092-51402-006	5475499	
	FB48	SA44		092-51411-006	5473697	
	FB56	SA44		092-51419-006	5467823	

TABLE 22 - SYSTEM PIPING (CONT'D)

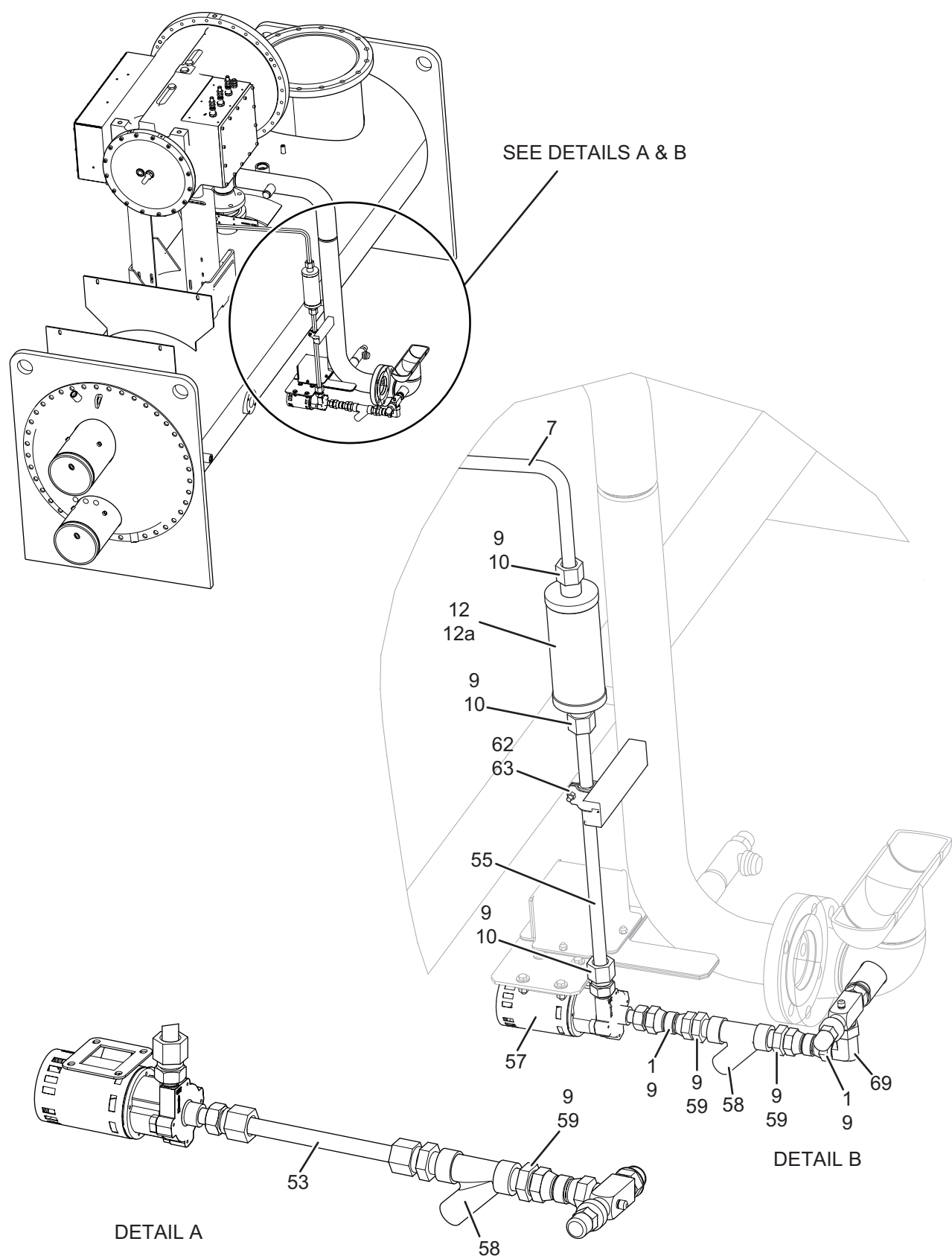
ITEM	EVAP CODE	COND CODE	DESCRIPTION	PART NUMBER	SAP NUMBER	FIGURE
5	FB29	CA21	Tube, Motor Cooling In, Filter Drier	092-51406-007	5416732	19
	FB29	SA25		092-51407-007	5464044	
	FA33	SA25		092-51410-007	5464051	
	FA33	CA25		092-51400-007	5440825	
	FA33	SA33		092-51421-007	5464074	
	FA39	SA33		092-51417-007	5440858	
	FA39	CA33		092-51413-007	5467810	
	FA39	SA39		092-51423-007	5464082	
	FB48	SA39		092-51425-007	5464091	
	FB48	CA39		092-51402-007	5475500	
	FB48	SA44		092-51411-007	5473698	
	FB56	SA44		092-51419-007	5467824	
6	FB29	CA21	Tube, Liquid Refrig. Drain	092-51406-008	5416733	17
	FB29	SA25		092-51407-008	5464045	
	FA33	SA25		092-51410-008	5464052	
	FA33	CA25		092-51400-008	5440826	
	FA33	SA33		092-51421-008	5464075	
	FA39	SA33		092-51417-008	5440859	
	FA39	CA33		092-51413-008	5467811	
	FA39	SA39		092-51423-008	5464083	
	FB48	SA39		092-51425-008	5464092	
	FB48	CA39		092-51402-008	5475501	
	FB48	SA44		092-51411-008	5473699	
	FB56	SA44		092-51419-008	5467825	
7	FB29	CA21	Tube, Motor Cooling In, Filter, Pipe, Motor Cooling In, EEV Valve	092-51406-009	5416734	16
	FB29	SA25		092-51407-009	5464046	
	FA33	SA25		092-51410-009	5464053	
	FA33	CA25		092-51400-009	5440827	
	FA33	SA33		092-51421-009	5464076	
	FA39	SA33		092-51417-009	5440861	
	FA39	CA33		092-51413-009	5467812	
	FA39	SA39		092-51423-009	5464084	
	FB48	SA39		092-51425-009	5464093	
	FB48	CA39		092-51402-009	5475502	
	FB48	SA44		092-51411-009	5473700	
	FB56	SA44		092-51419-009	5467826	
8	All	All	O-Ring Size=912 2.95 23.47mm NEO1 N N/A	028-12961-006	588821	19
9	All	All	O-Ring NEO1 00.739ID .070 THK M	028-12961-015	618651	16
10	All	All	Sleeve ORFMAP 3/4in SS	023-20827-005	146602	16
12	FB29, FA33, FA39, FB48, FB56	CA21, SA25, CA25, SA33, SA39, CA39, SA44	Filter Drier 3/4 ORFS	026-43089-000	260177	16

TABLE 22 - SYSTEM PIPING (CONT'D)

ITEM	EVAP CODE	COND CODE	DESCRIPTION	PART NUMBER	SAP NUMBER	FIGURE
12a	FA39	CA33, SA39	Assembly Drier OD 25.4mm/1in Non rech	026-50592-000	5473371	16
13	All	All	Valve ISLN Angle SC 1-3/16in THD Br	022-10047-000	617115	19
14	FB29, FA33, FA39	SA25, CA25, CA33	O-Ring NEO1 02.600ID .210 THK M	028-14469-000	741886	
15	All	All	Valve EXV 1-1/8in Br Br 700.0 PSI 12 VDC	022-13543-000	5416720	19
21	All	All	O-Ring Size=906 1.98 11.89mm NEO1 N N/A	028-12961-003	588818	17
22	All	All	Valve ISLN Angle SC 9/16in CONmix SC	022-10054-000	617117	17
23	All	All	O-Ring NEO1 00.364ID .070 THK M	028-12961-012	618648	17, 18
24	All	All	Sleeve ORFMAP 3/8in. SS	023-20827-002	534814	17, 18
26	All	All	Clamp Loop 9.5 - STL	023-05284-000	146801	18
28	All	All	Sleeve ORFSB 3/4in. 1/2in Steel	023-20880-009	733362	18
29	All	All	Clamp Loop 12.7 - NCSTL	021-15483-000	147508	18
30	All	All	Adapter ORF(M) 1-3/16in SLDF 1-3/8in	023-27651-000	5416721	19
31	All	All	Adapter ORF(M) 1-3/16in SLDF 1-1/16in	023-27652-000	5416722	19
33	All	All	Union ORF(M) 11/16in. Steel	023-20258-000	278990	18
35	All	All	O-Ring NEO1 00.489ID .070 THK M	028-12961-013	618649	18
36	All	All	Sleeve ORFMAP 1/2in. SS	023-20827-003	733340	18
42	All	All	Tube Tee Steel ORF(M) 1-3/16 ORFSW	023-24898-000	733969	19
43	All	All	Sleeve ORFSB 3/4in. 1/4in Steel	023-20880-007	5467951	19
49	FA39	SA33, CA33	Union ORFSW 1-7/16in ORFSW 1-7/16in	023-22098-000	733579	
50	FA39	SA33, CA33	O-Ring NEO1 00.926ID .070 THK M	028-12961-016	618652	
52	FA39	SA33, CA33	Sleeve ORFSB 1in. 3/4in Steel	023-20880-014	617697	
53	FA39	CA33	Tube, Motor Cooling, Booster to Strainer, Tube, Motor Cooling, Pump to Strainer	092-51413-011	5550973	16
	FA39	SA39		092-51423-011	5464086	
	FB48	SA39		092-51425-011	5553096	
	FB48	CA39		092-51402-011	5549201	
54	FA39	CA33	Tube, Motor Cooling, EEV to TEE	092-51413-012	5550974	19
	FA39	SA39		092-51423-012	5556199	
	FB48	SA39		092-51425-012	5553097	
	FB48	CA39		092-51402-012	5549202	
55	FB29	CA21	Tube, Motor Cooling, Booster to Filter D	092-51406-013	5540286	16
	FB29	SA25		092-51407-013	5566937	
	FA33	SA25		092-51410-013	5551041	
	FA33	CA25		092-51400-013	5556211	
	FA39	SA33		092-51417-013	5549342	
	FB48	SA39		092-51425-013	5553098	
	FB48	CA39		092-51402-013	5549203	
	FB48	SA44		092-51411-013	5566935	
	FB56	SA44		092-51419-013	5566900	

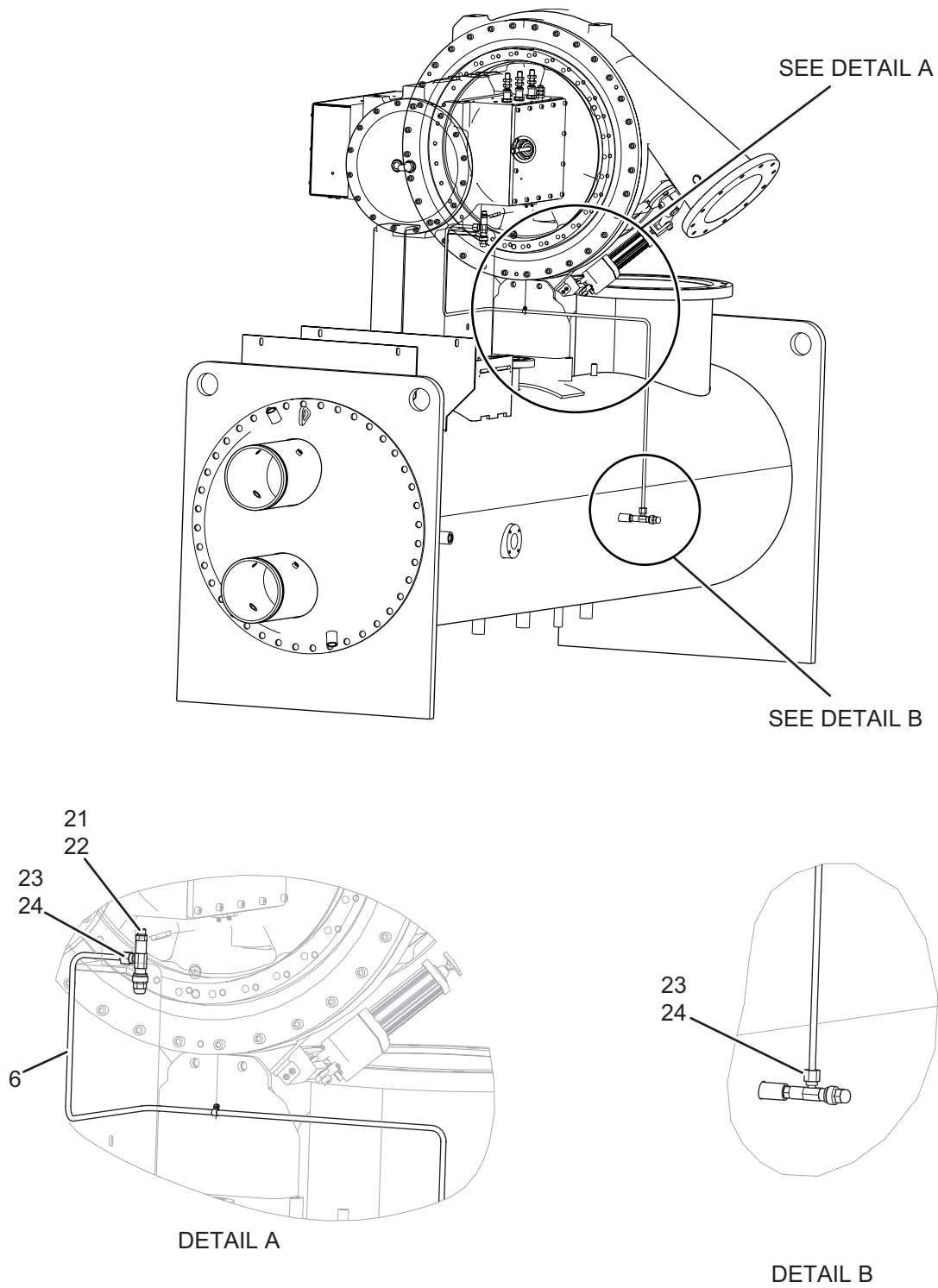
TABLE 22 - SYSTEM PIPING (CONT'D)

ITEM	EVAP CODE	COND CODE	DESCRIPTION	PART NUMBER	SAP NUMBER	FIGURE
56	FB29	CA21	Tube, Purge Suction, Valve	092-51406-014	5540287	18
	FB29	SA25		092-51407-014	5566938	
	FA33	SA25		092-51410-014	5551042	
	FA33	CA25		092-51400-014	5556212	
	FA33	SA33		092-51421-014	5556208	
	FA39	SA33		092-51417-014	5549343	
	FA39	CA33		092-51413-014	5550976	
	FA39	SA39		092-51423-014	5556201	
	FB48	SA39		092-51425-014	5553099	
	FB48	CA39		092-51402-014	5549204	
	FB48	SA44		092-51411-014	5566936	
	FB56	SA44		092-51419-014	5566901	
57	All	All	Pump 115V 50/60HZ, Motor Cooling	026-50631-000	5533376	16
58	All	All	Strainer Y-Type 3/4" SW CS	026-46127-000	741291	16
59	All	All	Adapter ORF(M) 1-3/16in SLDF 3/4in Br	023-27911-000	5533375	16
60	All	All	Elbow 90° Steel ORF(M) 11/16in ORFSW	023-21884-000	346920	18
61	All	All	Union ORF(F) 13/16in Steel	023-24291-000	5013257	18
62	All	All	Clamp U Strut 19.0 - CS TPE	023-12691-000	146767	16
63	All	All	Anchor Channel 1 H x 1-5/8 W	023-12700-000	617506	16
69	FB29, FB48	CA21, CA39	Elbow 90° Steel ORF(M) 1-3/16 ORFSW	023-20847-000	165392	16



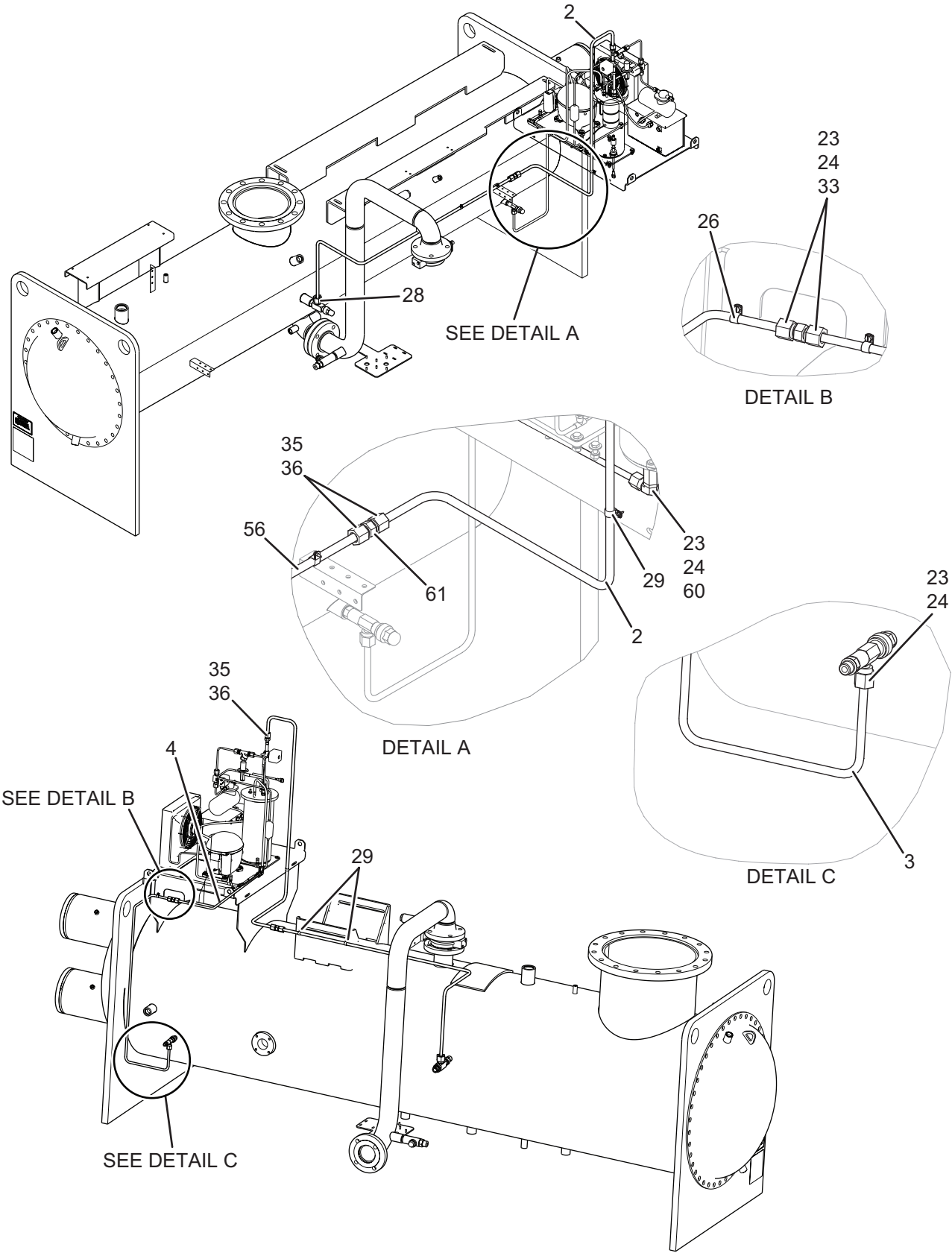
LD27381

FIGURE 16 - SYSTEM PIPING



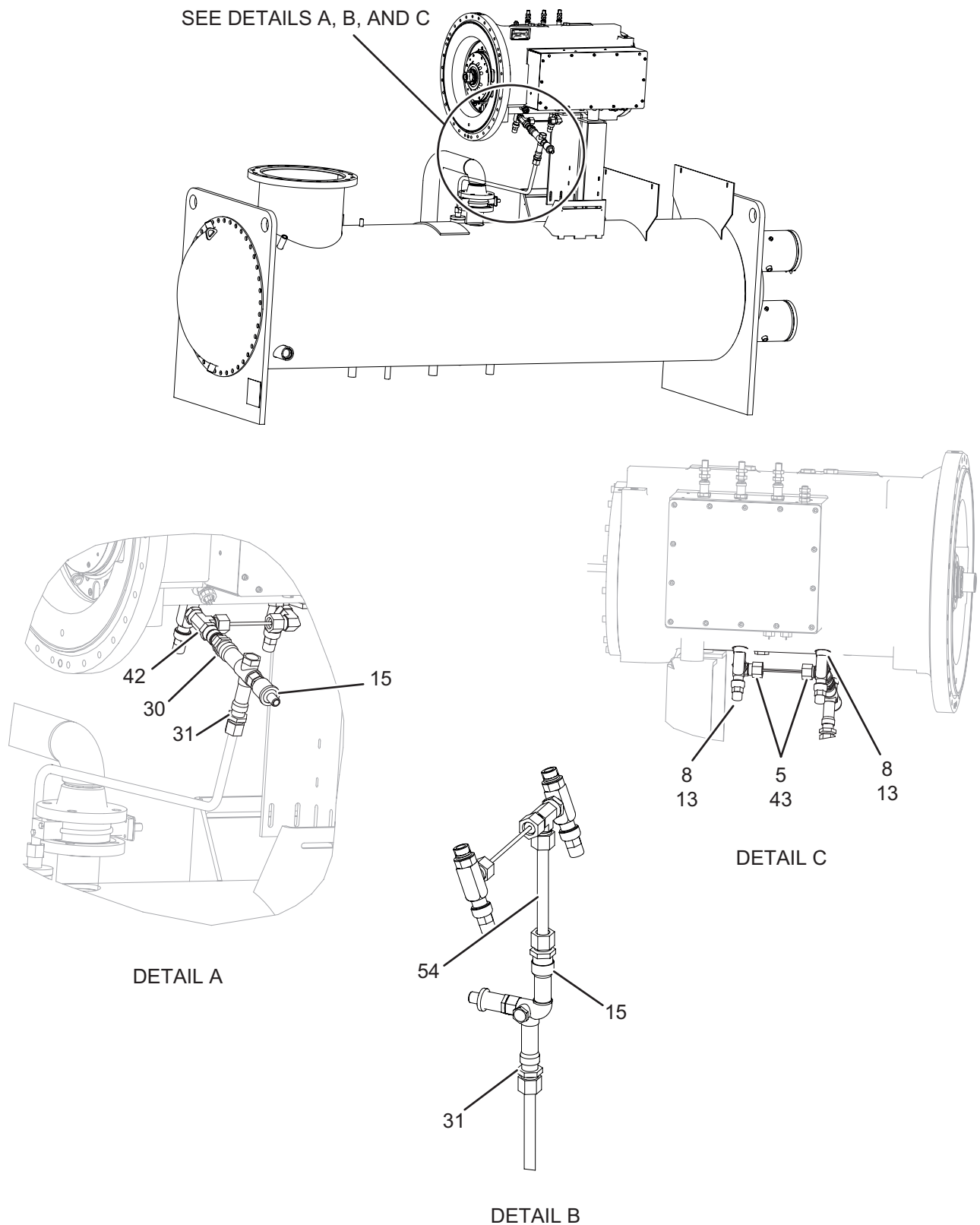
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FIGURE 17 - SYSTEM PIPING



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FIGURE 18 - SYSTEM PIPING



LD28105

FIGURE 19 - SYSTEM PIPING

TABLE 23 - EVAPORATOR RELIEF VALVE KIT

ITEM	DESCRIPTION	PART NUMBER	SAP NUMBER	FIGURE
1	Valve Relief 50.0 PSI 1-7/8in X 1-1/2in	022-13400-000	5443176	20
2	O-Ring NEO1 01.720ID .118 THK M	028-12961-020	618656	20
3	Valve, Manifold, 3 WAY 1-7/8-12 (Without Isolation Valves)	022-13540-000	5443177	20

TABLE 24 - CONDENSER RELIEF VALVE KIT

ITEM	DESCRIPTION	PART NUMBER	SAP NUMBER	FIGURE
1	Valve Relief 50.0 PSI 1-7/8in X 1-1/2in	022-13400-000	5443176	20
2	O-Ring NEO1 01.720ID .118 THK M	028-12961-020	618656	20
3	Valve, Manifold, 3 Way 1-7/8-12	022-13540-000	5443177	20

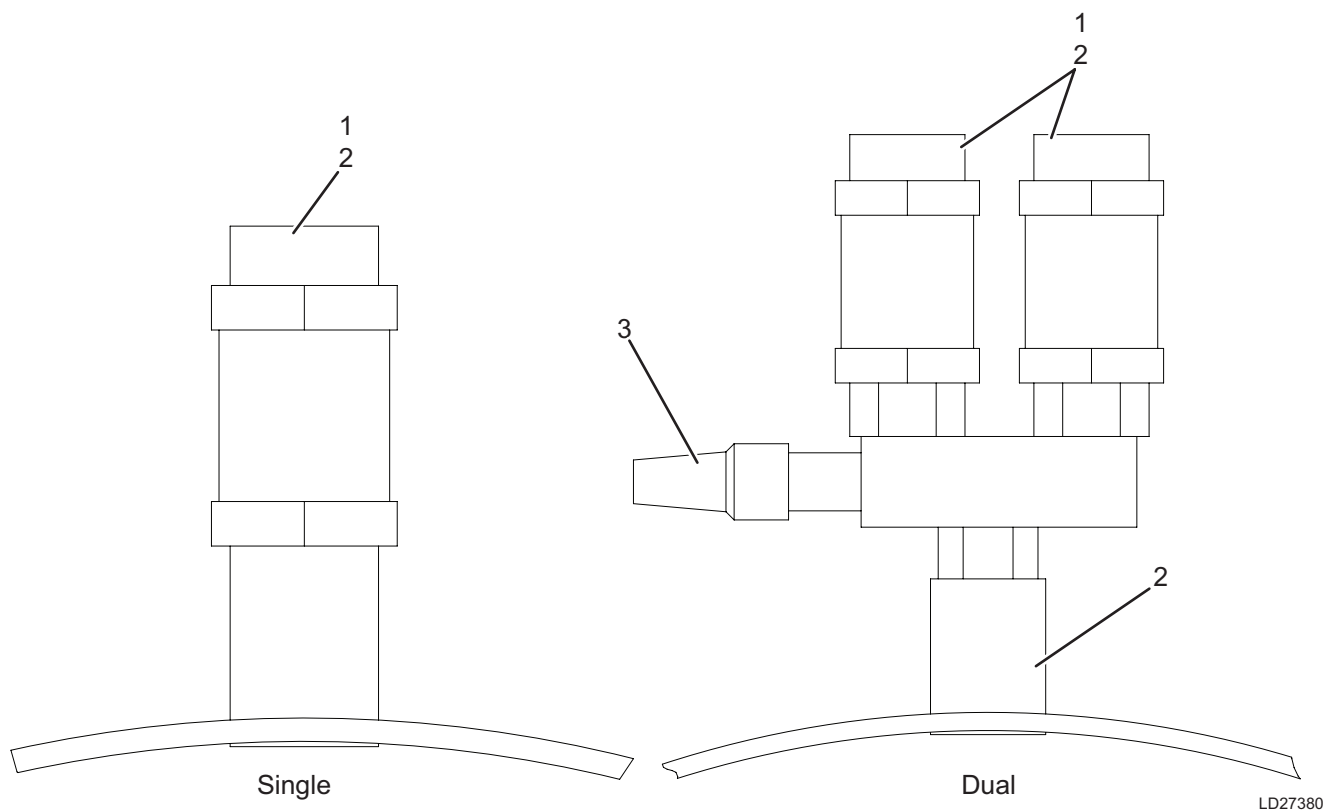


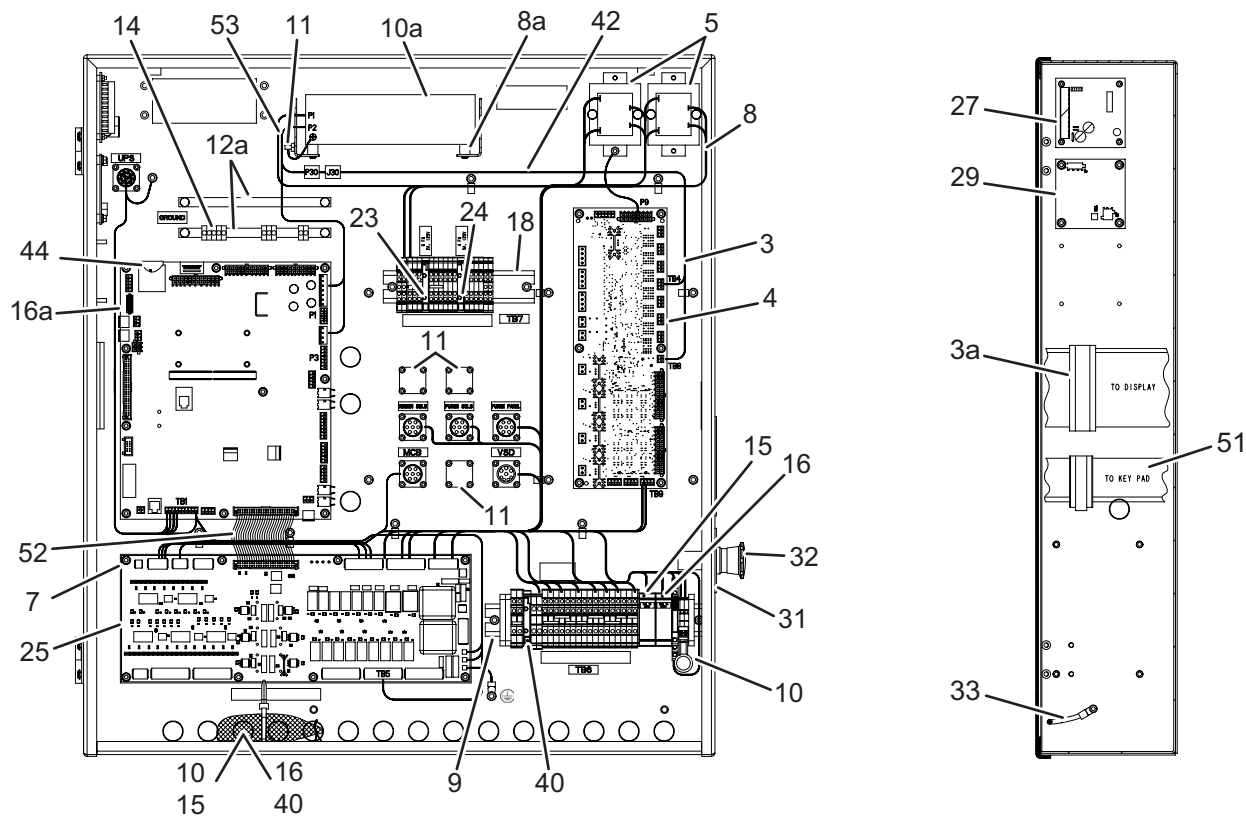
FIGURE 20 - RELIEF VALVE KIT

TABLE 25 - OPTIVIEW PANEL

ITEM	DESCRIPTION	PART NUMBER	SAP NUMBER	FIGURE
1	ENCL, COMPL YZ OPTIVIEW CONTROL PNL	371-08095-310	5326733	
2	CLAMP RIBBON WIRE, GRAY	025-25156-000	737712	22
3	SPACER, ROUND, #8-32X5/8LG	021-19668-000	730522	21
3a	CLAMP, FLAT CABLE FERRITE	025-34172-000	739020	21
4	CONTROL, LTC I/O, YMCC FULL SYSTEM	031-02895-003	865033	21, 22
4a	CLAMP, RIBBON WIRE GRAY,	025-29103-000	738253	
5	CLASS 2 STEPDOWN TRANSFORMER	025-30889-000	738521	21
7	WIRING DIAGRAM, YZ/MBC OPTIVIEW	035-26576-000	5326696	21
8	WIRING HARNESS, MAIN YZ&MBC OPTIV PNL	571-08095-241	5326740	21
8a	MOUNT ANTI-VIBRATION	021-19191-000	730394	21
9	KIT, TERM BLK TB6 YZ OPTIVIEW	025-49285-000	5326677	21
10	VARISTOR, OPTIVIEW 2	031-03452-000	1081761	21
10a	POWER SUPPLY	025-34111-000	1386	21
11	PLATE COVER YZ OPTIVIEW	071-08095-318	5326727	21
12	PROTECTIVE CAP, PLASTIC	025-49251-000	5326676	21
12a	BUS BAR, YZ OPTIVIEW CTRL PNL	071-08095-320	5442924	21
14	CABLE CLAMP UNINSULATED	025-44478-000	740503	21
15	Fuse Type=Cartridge 7.00A 600V	025-25941-000	5326649	21
16	Fuse Type=Cartridge 7.00A 600V	025-25941-000	5326649	21
16a	CONTR, OPTIVW BASEBBD, YMCC, YD & DEL	031-03630-007	1190845	21
18	KIT, TERM BLK TB7 YZ OPTIVIEW	025-49200-000	5326674	21
23	Fuse Type=Fastacting 2.00A 250V None	025-49940-002	5395149	22
24	Fuse Type=Fastacting 5.00A 250V None	025-49940-005	5395151	22
25	IO BOARD, YZ OPTIVIEW CONTR PNL	031-03631-003	5326693	21
27	EEV DRIVER BOARD IB-G PART#953580 PARKER	025-45462-042	5003886	21
29	CONTROL VGD STALL DETECTOR BD.	031-02418-001	360270	21
31	SWITCH, PB LEGEND PLATE, SAFETY STOP	025-44646-000	740573	21
32	SWITCH PB, E-STOP 2 N.C.	025-43677-000	740330	21
33	STRAP GROUNDING	025-32505-001	738720	21
	WIRE, TIN COPPER BRAIDED,	025-32517-000	738726	21
	TERMINAL RING TONGUE	025-12611-000	737340	21
39	CARD, SD PROGRAMMED OPTIVIEW YK AND YZ	031-03601-003	5538708	
40	Fuse Type=Fastacting 5.00A 250V None	025-49940-005	5395151	21
42	WIRE HARNESS AUX (MBC) YZ OPTIVIEW	571-08095-231	5395158	21
44	CARD, SD BLANK OPTIVIEW	031-03831-000	5463255	21
45	DIn rail L=127.00mm W=35.00mm D=7.50mm	071-05906-050	837972	22
46	KEYPAD, YZ OPTI PANEL CE & UL	024-39881-000	5395146	
47	Fuse Type=Micro 4.00A 250V Fast Actng	025-50299-000	5428054	22

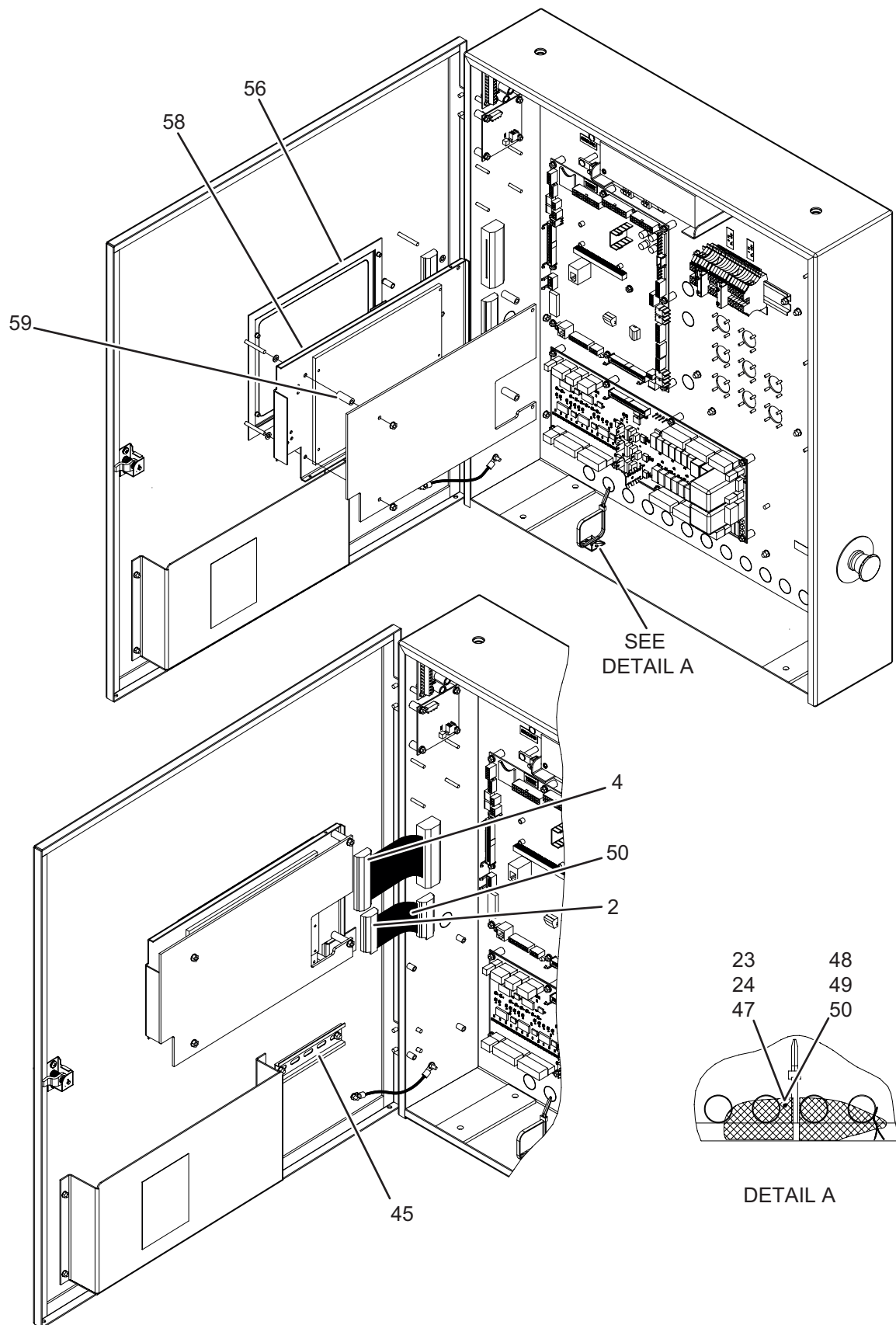
TABLE 25 - OPTIVIEW PANEL (CONT'D)

48	CLAMP, FERRITE SLEEVE SNAP	025-34175-000	739022	22
49	Fuse Type=Micro 5.00A 250V Fast Actng	025-50300-000	5428055	22
50	SURGE SUPPRESSOR	031-00808-000	618876	22
51	RIBBON CABLE YM PANEL	031-01772-000	743825	21
52	RIBBON CABLE YM PANEL	031-01779-000	63158	21
53	WIRING, POWER SUPPLY, OPTVIEW YMC2	571-06985-251	5134761	21
56	GASKET 1/16 X 1/2 NEOPRENE	071-05170-000	749141	22
58	KIT, DISPLAY YM PANEL	331-01771-000	770400	22
59	SPACER, PLASTIC, 3/8 OD X 1	021-19173-000	730387	22



LD28051

FIGURE 21 - OPTIVIEW PANEL



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FIGURE 22 - OPTIVIEW PANEL

TABLE 26 - SYSTEM WIRING

ITEM	DESCRIPTION	PART NUMBER	SAP NUMBER	EVAP LENGTH	FIGURE
111	O-Ring Neo1 00.414ld .072 Thk M	028-12961-002	683003	All	24, 25
112	O-Ring Size=908 2.21 16.36mm Neo1 N N/A	028-12961-004	588819	All	24
114	Well Thermo	026-32328-000	1467	All	25
115	Connector Plug HSG, 2 Position	025-28951-000	62724	All	25
116	Contact Receptacle, 070 Series	025-28952-000	260	All	25
117	Collar Rubber, Black, 070	025-28950-000	65212	All	25
119	Comp Heat Conductive 4 oz	013-00898-000	616572	All	
121	Gasket, Seal 1 Od X 7/8 Id X	028-04836-000	62960	All	24
122	Valve, Ball 3/4-16Unf-2A	022-11715-000	338981	All	24
123	O-Ring Size=903 1.63 7.65mm Neo1 N N/A	028-12961-021	588826	All	24
120	HARNESS, VSD AND MBC FIBER COMS MAG	392-51870-115	5408262	10	25
		392-51870-215	5543417	12	
		392-51870-415	5388838	14	
		392-51870-815	5543419	16	
		392-51870-815	5543419	18	
	Conduit Flexible ID=21mm ID=15.5 OD=21.2	025-47663-101	5512653	10	
	Conduit Flex Ell 90 16mm X 1/2 NPT	025-47664-100	5512654	All	
	Conduit Ell 90° 90 21mm X 1/2 IN NPT	025-47664-101	5519194		
	Cable Fiber Optic F=2 999.9µm	025-46501-001	5309149	10, 14	
	Conduit Junction 21mm X16mm X16mm	025-47667-100	5512655	All	
	Conduit Flexible ID=16mm ID=11.5 OD=15.8	025-47663-100	5512652		
	Conduit Connector 16mm - 1/2in NPT	025-47665-100	5543411		
124	HARNESS, VSD TO VGD, MAG/OIL	392-51870-100	5408253	10	25
		392-51870-200	5424544	12	
		392-51870-400	5388829	14	
		392-51870-600	5456904	16	
		392-51870-800	5474363	18	
	Cable W=3 18AWG 600V Conductor Foil Cu	025-46347-000	1057017	All	
	Contact Socket For Pin Contact	025-45346-000	844518		
	Conn Housing T=9 R=1 P=10.50	025-45347-000	844519		
	Conn Pin Plug T=7 Cable, Crimp Male	025-49209-000	5323300		
	Lug Wire 16AWG Pin Terminal 180.0°	025-45808-000	996760		

TABLE 26 - SYSTEM WIRING (CONT'D)

ITEM	DESCRIPTION	PART NUMBER	SAP NUMBER	EVAP LENGTH	FIGURE
125	HARNESS VSD TO MOTOR WINDINGS MAG/OIL	392-51870-104	5408254	10	
		392-51870-204	5424545	12	
		392-51870-604	5456905	14, 16	
		392-51870-804	5474364	18	
	Conn Plug T=4 R=2 P=3.50 Cable, Crimp	025-50049-000	5408251	All	25
	Lug Wire 22AWG Contact Terminal 180.0°	025-50050-000	5408252		
	Wire Elec 6 Pairs W/Individual	025-43512-000	740315		
	Conn Pin Plug T=23 Cable, Crimp Male	025-49207-000	5323298		
	Conn Pin Plug T=1 Cable, Crimp Male	025-49208-000	5323299		
	Lug Wire 22-16AWG Butt splice 180.0° Ins	025-10535-000	1110828		
	Wire Elec 22 Awg Red	025-37884-000	739495		
	Sleeving Heat Shrink D=6.35mm	025-49910-000	5388828		
	Tubing Heat Shrinkable 3/8 Id	025-28977-000	144752		
	Tubing Heat Shrinkable 3/4 Id	025-28987-000	738251		
126	HARNESS, VSD TO OV, MAG-YZ	392-51870-107	5408255	10	
		392-51870-607	5456906	12	
				14	
				16	
		392-51870-807	5474365	18	
	Conduit Flexible ID=21mm ID=15.5 OD=21.2	025-47663-101	5512653	All	25
	Conduit Ell 90° 13/16 - 1/2	025-49474-101	5512657		
	Wire Elec 12 Awg Grn/Yel Per	025-34028-000	738984		
	Wire Elec 12 Awg Blk Per Aso	025-34006-000	738971		
	Wire Elec 12 Awg White	025-12811-000	737346		
	Wire Elec 16 Awg Blk Per Aso	025-34004-000	738969		
	Connector Circular Size 14 8 Pos Pin	025-45932-000	998740		
	Lug Wire 16Awg Pin Terminal 180.0°	025-45808-000	996760		
	Lug Wire 12Awg Pin Terminal 180.0°	025-45809-000	996941		
	Key Insert Contact Size 16 Souriau	025-45825-000	996950		
	Connector Circular Size 14 8 Pos Socket	025-45933-000	998761		
	Lug Wire 12AWG Contact Terminal 180.0°	025-45810-000	996942		
	Lug Wire 16AWG Contact Terminal 180.0°	025-45807-000	996759		
127	HARNESS, SHIELDED CABLE, MAG-YZ	392-51870-109	5408256	10	
		392-51870-209	5424547	12	
		392-51870-609	5456907	14, 16	
		392-51870-809	5474366	18	
	Wire 2-Condtr W/Foil Shield	025-28701-002	618114	All	24, 25, 26
	Wire 3 Condtr W/Foil Shield	025-28701-003	144750		
	Wire Elec 2 Pairs W/Individual	025-31788-000	618187		
	HSG Connr Plug Mini 20 Ckt Wht	025-34116-000	738997		
	HSG Connr Plug Mini 22 Ckt Wht	025-34117-000	738998		
	HSG Connr Plug Mini 24 Ckt Wht	025-34533-000	739099		

TABLE 26 - SYSTEM WIRING (CONT'D)

ITEM	DESCRIPTION	PART NUMBER	SAP NUMBER	EVAP LENGTH	FIGURE
	HSG CONNR PLUG MINI 3 CKT NAT	025-29185-000	62736	All	24, 25, 26
	Connector Plug HSG, 2 Position	025-28951-000	62724		
	Lug Wire 20Awg Pin Terminal 180.0°	025-49346-000	5336183		
	Connector Din 43650	025-37805-000	144713		
	Contact Receptacle, 070 Series	025-28952-000	260		
	Collar Rubber, Black, 070	025-28950-000	65212		
	Contact Socket Mini-Universal	025-38185-000	5021469		
	Cable, Entry System, 10 Pos	025-49331-000	5323306		
	Grommet, Cable Entry System, 2 Hole, 4mm	025-49332-000	5323307		
	Ferr Splice Cap	025-10434-000	737259		
	Insr Elec	025-10435-000	737260		
	Wire Elec 18 Awg Grn/Yel Per	025-34025-000	738981		
	Tubing Heat Shrinkable 3/8 Id	025-28977-000	144752		
	Cable W=7 22Awg 300V Wo/Earth Shielded	025-50292-000	5424542		
	Contact Socket Mini Universal	025-28386-000	737925		
	HSG Connr Plug Mini 4 Ckt Nat	025-28959-000	738246		
	Wire, 6 Conductor With	025-43432-000	740292		
	Conn Pin Plug T=12 Cable, Crimp Female	025-49210-000	5323301		
	Kit-Cable-M12-20'-S-4 Wire	025-49322-020	5311189		
	Grommet, Cable Entry System, 2 Hole, 5mm	025-49333-000	5323308		
	Grommet, Cable Entry System, 4 Hole, 5mm	025-49334-000	5323309		
	Plug, St6 Cable Grommet	025-49788-006	5388816		
	Conector Housng For Pin Contact	025-45349-000	844520		
	Connector Iso 4400/Din	025-37877-000	144714		
	Contact Socket For Pin Contact	025-45350-000	844811		
	Contact Socket For Pin Contact	025-45346-000	844518		
	HSG, Receptacle, Micro-	025-39327-000	618219		
	Contact, Receptacle, Micro-	025-39329-000	618220		
	Plug, St5 Cable Grommet	025-49788-005	5388815		
	Grommet, Cable Entry System, 4 Hole, 6mm	025-49357-000	5323316		
	Grommet, Cable Entry System, 7-8mm	025-49938-000	5379143		
	Grommet, Cable Entry System, 1 Hole, 11mm	025-49337-000	5323312		
	Cable W=19 20Awg 300V Wo/Earth Shielded	025-50290-000	5424540		
	Conn Pin Plug T=7 Cable, Crimp Female	025-49304-000	5323304		
	Key Insert Contact Size 16 Souriau	025-45825-000	996950		
	Plug, St4 Cable Grommet	025-49788-004	5388814		

TABLE 26 - SYSTEM WIRING (CONT'D)

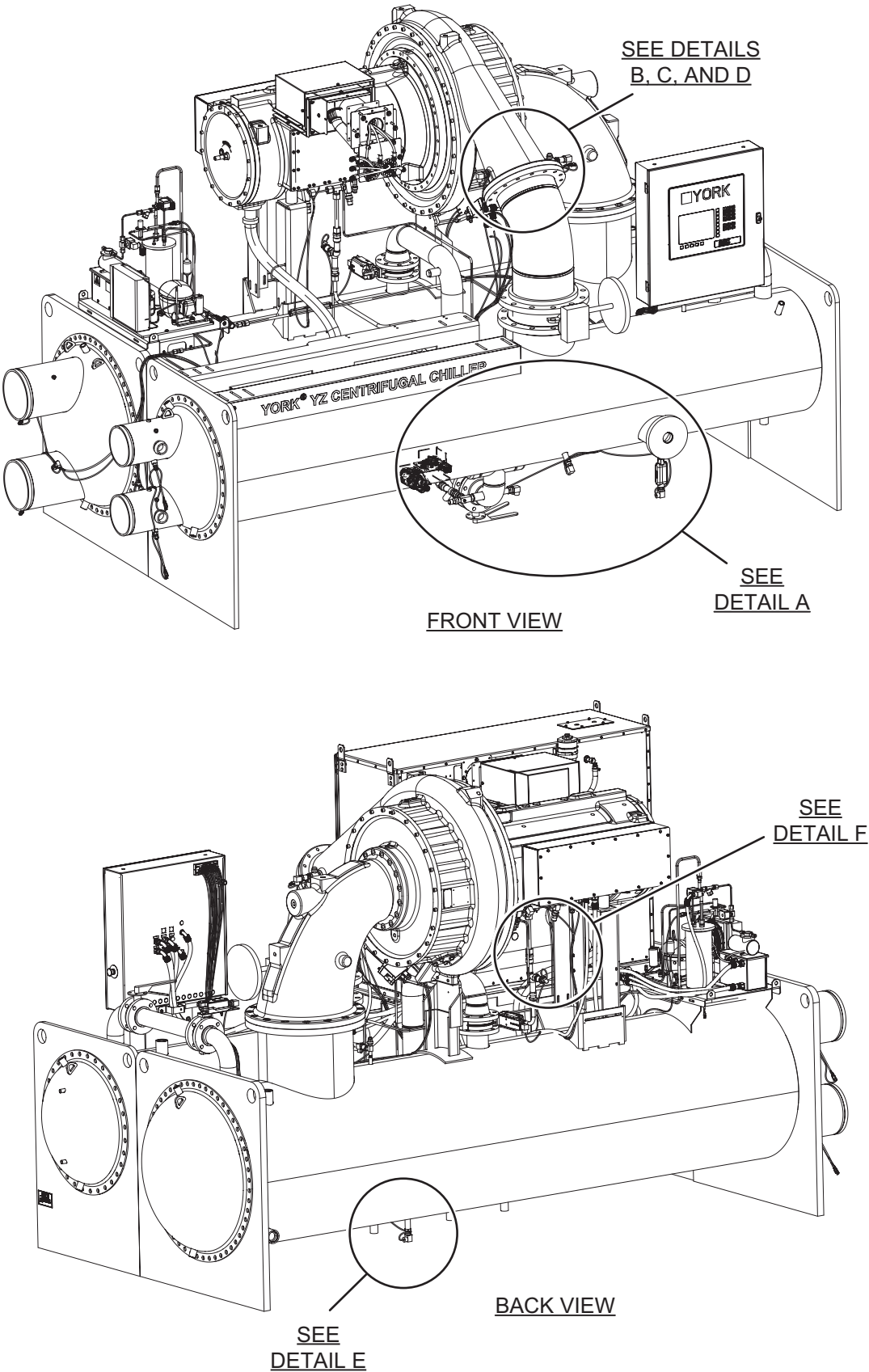
ITEM	DESCRIPTION	PART NUMBER	SAP NUMBER	EVAP LENGTH	FIGURE
128	HARNESS, PURGE TANK SOLS MAG/OIL-YZ	392-51870-110	5408257	10	
		392-51870-210	5424548	12	
		392-51870-610	5456908	14, 16	
		392-51870-810	5474367	18	
	Conduit Flexible Id=21mm Id=15.5 Od=21.2	025-47663-101	5512653	All	25
	Conduit Flex Ell 90 16mm X 1/2 NPT	025-47664-100	5512654		
	Connector Iso 4400/Din	025-37876-000	117987		
	Conduit Ell 90° 13/16 - 1/2	025-49474-101	5512657		
	Wire Elec 18 Awg Blk Per Aso	025-34003-000	738968		
	Wire Elec 18 Awg White	025-12729-000	144788		
	Wire Elec 18 Awg Grn/Yel Per	025-34025-000	738981		
	Conn Pin Plug T=7 Cable, Crimp Male	025-49211-000	5323302		
	Lug Wire 16Awg Pin Terminal 180.0°	025-45808-000	996760		
	Conduit Junction 21mm X16mm X16mm	025-47667-100	5512655		
	Conduit Flexible Id=16mm Id=11.5 Od=15.8	025-47663-100	5512652		
129	HARNESS, VSD TO MBC (HV), MAG-YZ	392-51870-112	5408258	10	
		392-51870-212	5424549	12	
		392-51870-412	5388835	14	
		392-51870-612	5456909	16	
		392-51870-812	5474368	18	
	Conduit Flexible ID=21mm ID=15.5 OD=21.2	025-47663-101	5512653	All	25
	Conduit Ell 90° 13/16 - 1/2	025-49474-101	5512657		
	Conduit Connector 13/16 - 1/2	025-49471-101	5512656		
	Cable W=4 16AWG 600V wo/earth Shielded	025-49303-000	5323303		
	Conn Pin Plug T=6 Cable, Crimp Female	025-49301-000	5311187		
	Lug Wire 16AWG Contact Terminal 180.0°	025-45807-000	996759		
	Conn Pin Plug T=7 Cable, Crimp Male	025-49211-000	5323302		
	Lug Wire 16AWG Pin Terminal 180.0°	025-45808-000	996760		
	Key Insert Contact Size 16 Souriau	025-45825-000	996950		
130	HARNESS, VSD TO PURGE PANEL MAG/OIL-YZ	392-51870-113	5408259	10	
		392-51870-213	5424550	12	
		392-51870-413	5388836	14, 16	
		392-51870-813	5474369	18	
	Conduit Flexible ID=21mm ID=15.5 OD=21.2	025-47663-101	5512653	All	25
	Conduit Ell 90° 13/16 - 1/2	025-49474-101	5512657		
	Wire Elec 12 Awg Grn/Yel Per	025-34028-000	738984		
	Wire Elec 12 Awg Blk Per Aso	025-34006-000	738971		
	Wire Elec 12 Awg White	025-12811-000	737346		
	Connector Circular Size 14 8 Pos Pin	025-45932-000	998740		
	Lug Wire 12Awg Pin Terminal 180.0°	025-45809-000	996941		
	Key Insert Contact Size 16 Souriau	025-45825-000	996950		
	Connector Circular Size 14 8 Pos Socket	025-45933-000	998761		
	Lug Wire 12AWG Contact Terminal 180.0°	025-45810-000	996942		
	Lug Wire 16AWG Pin Terminal 180.0°	025-45808-000	996760		
	Conduit Connector 13/16 - 1/2	025-49471-101	5512656		

TABLE 26 - SYSTEM WIRING (CONT'D)

ITEM	DESCRIPTION	PART NUMBER	SAP NUMBER	EVAP LENGTH	FIGURE
131	HARNESS, OV TO PURGE PANEL MAG/OIL-YZ	392-51870-114	5408261	10	
		392-51870-614	5456911	12, 14, 16	
		392-51870-814	5474370	18	
	Conduit Flexible ID=21mm ID=15.5 OD=21.2	025-47663-101	5512653	All	
	Conduit Ell 90° 13/16 - 1/2	025-49474-101	5512657		
	Wire Elec 18 Awg Blk Per Aso	025-34003-000	738968		
	Wire Elec 18 Awg White	025-12729-000	144788		
	Conn Pin Plug T=7 Cable, Crimp Male	025-49211-000	5323302		
	Lug Wire 16Awg Pin Terminal 180.0°	025-45808-000	996760		
	Key Insert Contact Size 16 Souriau	025-45825-000	996950		
	Conn Pin Plug T=6 Cable, Crimp Female	025-49301-000	5311187		
	Lug Wire 16AWG Contact Terminal 180.0°	025-45807-000	996759		
	Conduit Connector 13/16 - 1/2	025-49471-101	5512656		
132	HARNESS, VSD TO MBC (LV), MAG-YZ	392-51870-116	5408263	10	
		392-51870-216	5424552	12	
		392-51870-616	5456912	14, 16	
		392-51870-816	5474371	18	
	Cable W=7 22AWG 300V wo/earth Shielded	025-50291-000	5424541	All	25
	Conn Pin Plug T=7 Cable, Crimp Female	025-49304-000	5323304		
	Lug Wire 20AWG Pin Terminal 180.0°	025-49346-000	5336183		
	Conn Pin Plug T=7 Cable, Crimp Male	025-49209-000	5323300		
	Conn Pin Plug T=1 Cable, Crimp Male	025-49208-000	5323299		
	Key Insert Contact Size 16 Souriau	025-45825-000	996950		
133	HARNESS, VSD TO OV (UPS), MAG-YZ	392-51870-117	5408264	10	
		392-51870-217	5424553	12	
		392-51870-417	5388840	14	
		392-51870-617	5456913	16	
		392-51870-817	5474372	18	
	Cable W=7 20AWG 600V wo/earth Shielded	025-50293-000	5424543	All	
	Conn Pin Plug T=12 Cable, Crimp Female	025-49210-000	5323301		
	Lug Wire 20Awg Pin Terminal 180.0°	025-49346-000	5336183		
	Connector, 12Pos W/Backshell, Pin	025-49418-000	5350215		
	Conn Pin Plug T=1 Cable, Crimp Male	025-49208-000	5323299		
	Key Insert Contact Size 16 Souriau	025-45825-000	996950		
137	HARNESS,OV TO MTR CLG BSTR, MAG/OIL-YZ	392-51870-118	5519195	10	
		392-51870-218	5519196	12	
		392-51870-618	5519198	14, 16	
		392-51870-818	5519199	18	
138	KIT, MOTOR COOLING BOOSTER-YZ	392-62930-001	5543422	All	24

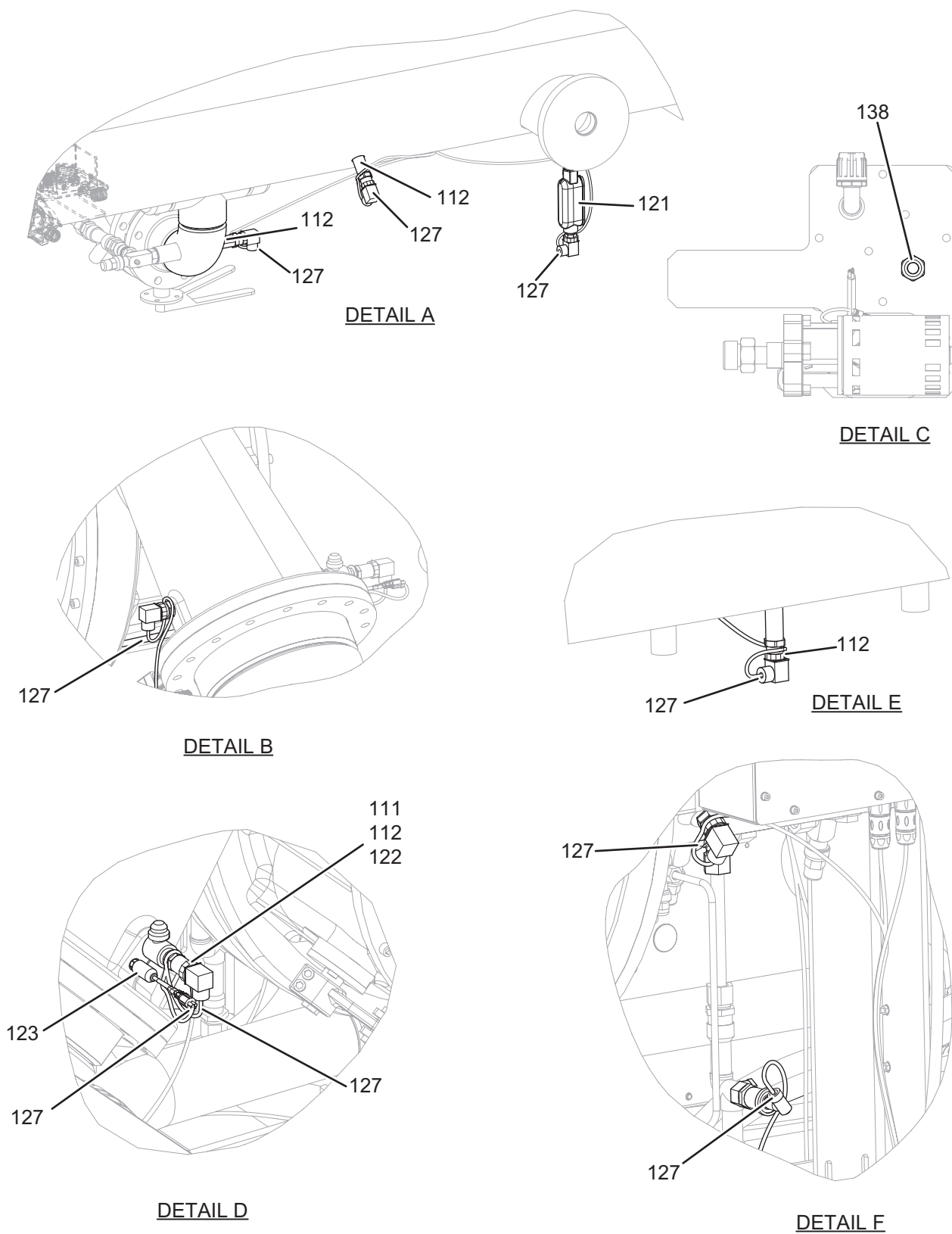
TABLE 26 - SYSTEM WIRING (CONT'D)

ITEM	DESCRIPTION	PART NUMBER	SAP NUMBER	EVAP LENGTH	FIGURE
401	ASSEMBLY, TERM BLOCK, MTR CLG BOOSTER-YZ	025-49216-000	5543412	All	27
	DIn Rail L=76.20mm W=35.00mm D=7.50mm	071-05906-030	839856		
	Term Blk Ground Wpe 4	025-39407-000	467020		
	End Barriers For Terminal Block	025-44579-000	837886		
	Terminal Block P=1 26-10Awg	025-44576-000	837883		
	Marker For Terminal Block	025-50302-000	5437073		
403	ASSEMBLY-COVER, TERM BLK, MTR CLG BOOSTER-YZ	392-87531-001	5543423	All	27
404	FITTING, LIQUID-TIGHT CORDGRIP	025-43523-000	740321	All	27
405	SURGE SUPPRESSOR	031-00808-000	618876	All	27
406	HARNESS, MCB EQUIPMENT GND-YZ	392-51870-905	5543420	All	27
	Wire Elec 18 Awg Grn/Yel Per	025-34025-000	738981		
	Lug Wire 22-16Awg Ring Terminal 180.0°	025-18946-000	1127821		
	Term Wire 22-16 Awg	025-19406-000	737520		



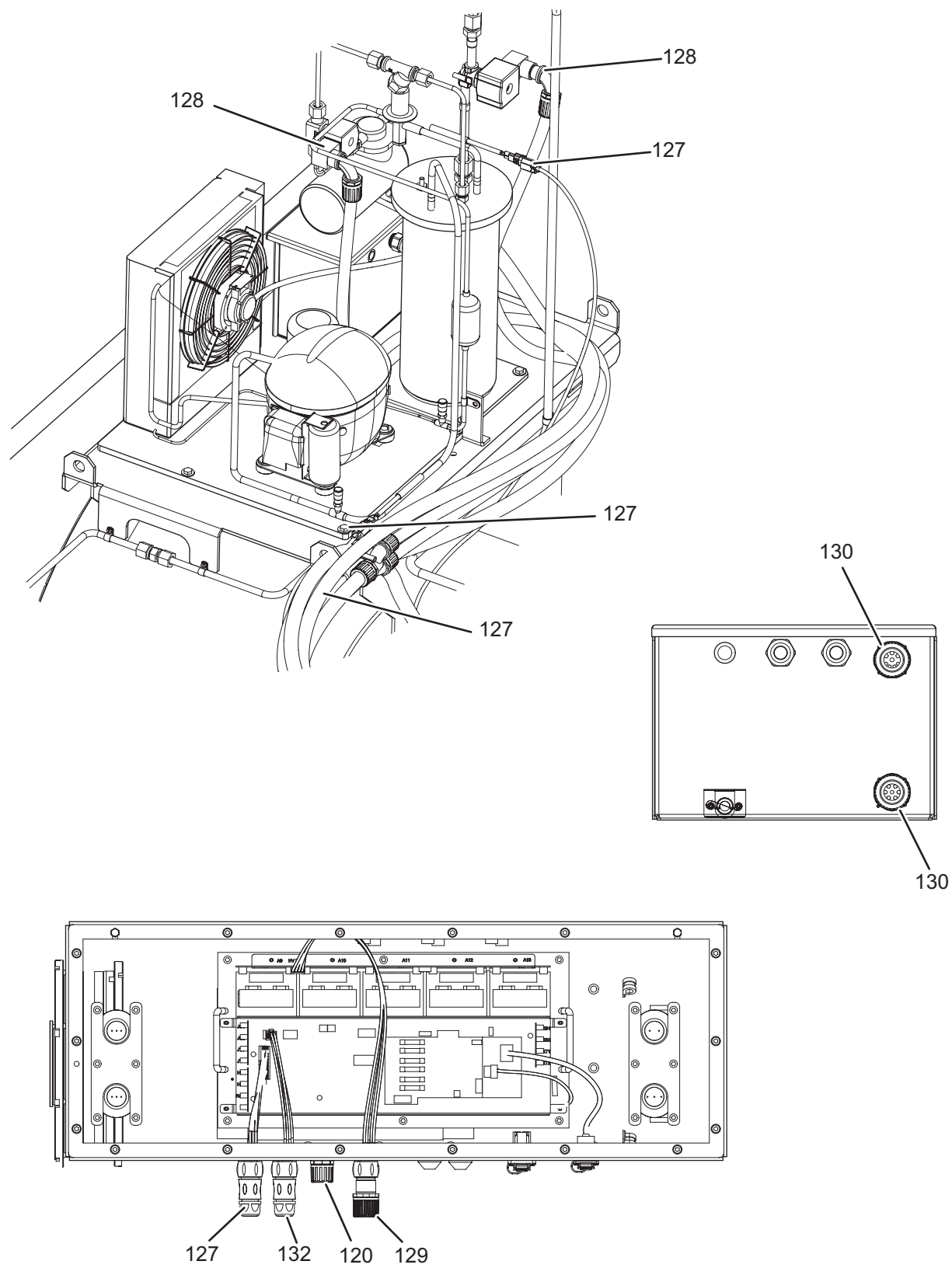
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FIGURE 23 - SYSTEM WIRING



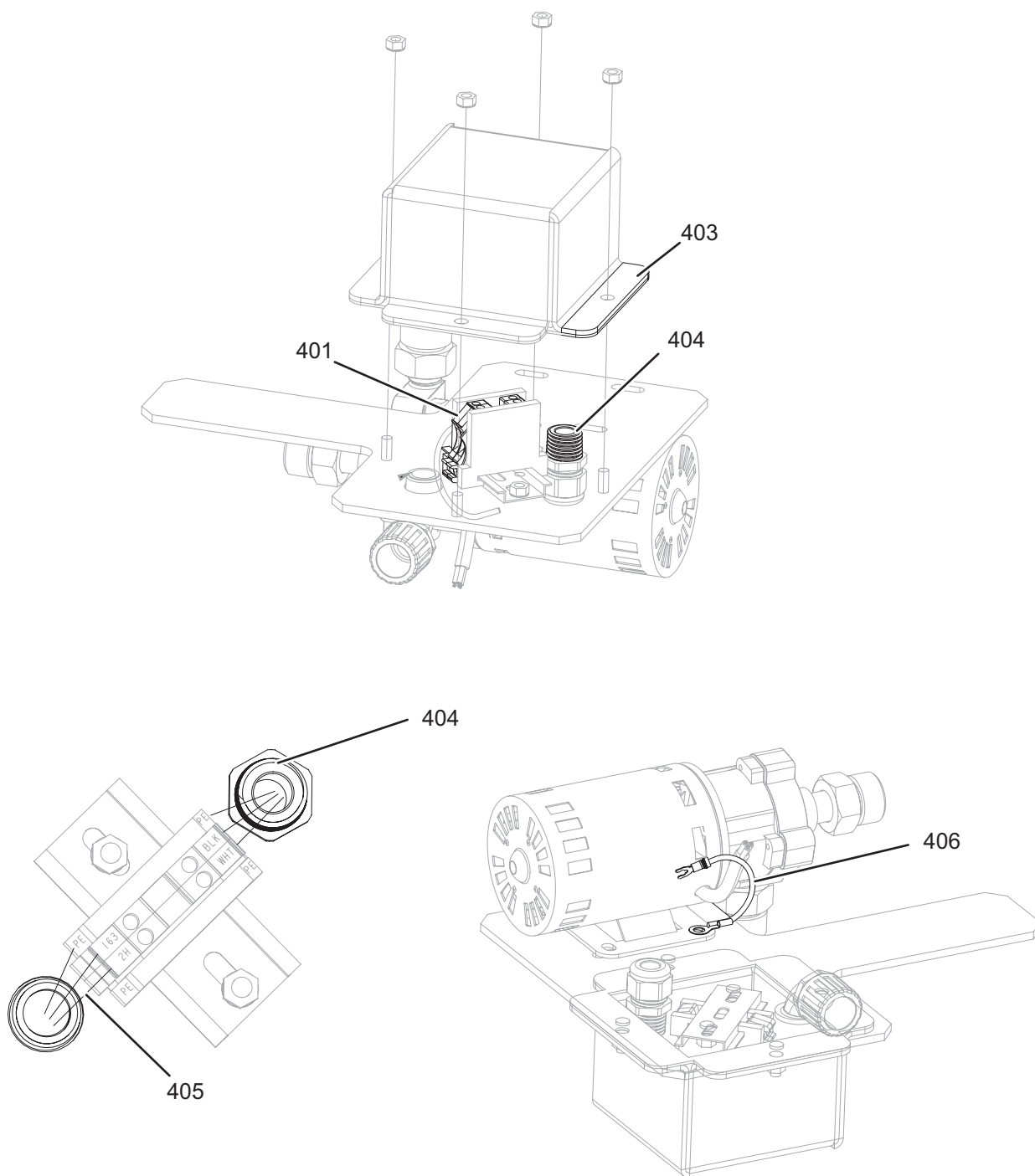
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FIGURE 24 - SYSTEM WIRING



LD28055

FIGURE 25 - SYSTEM WIRING

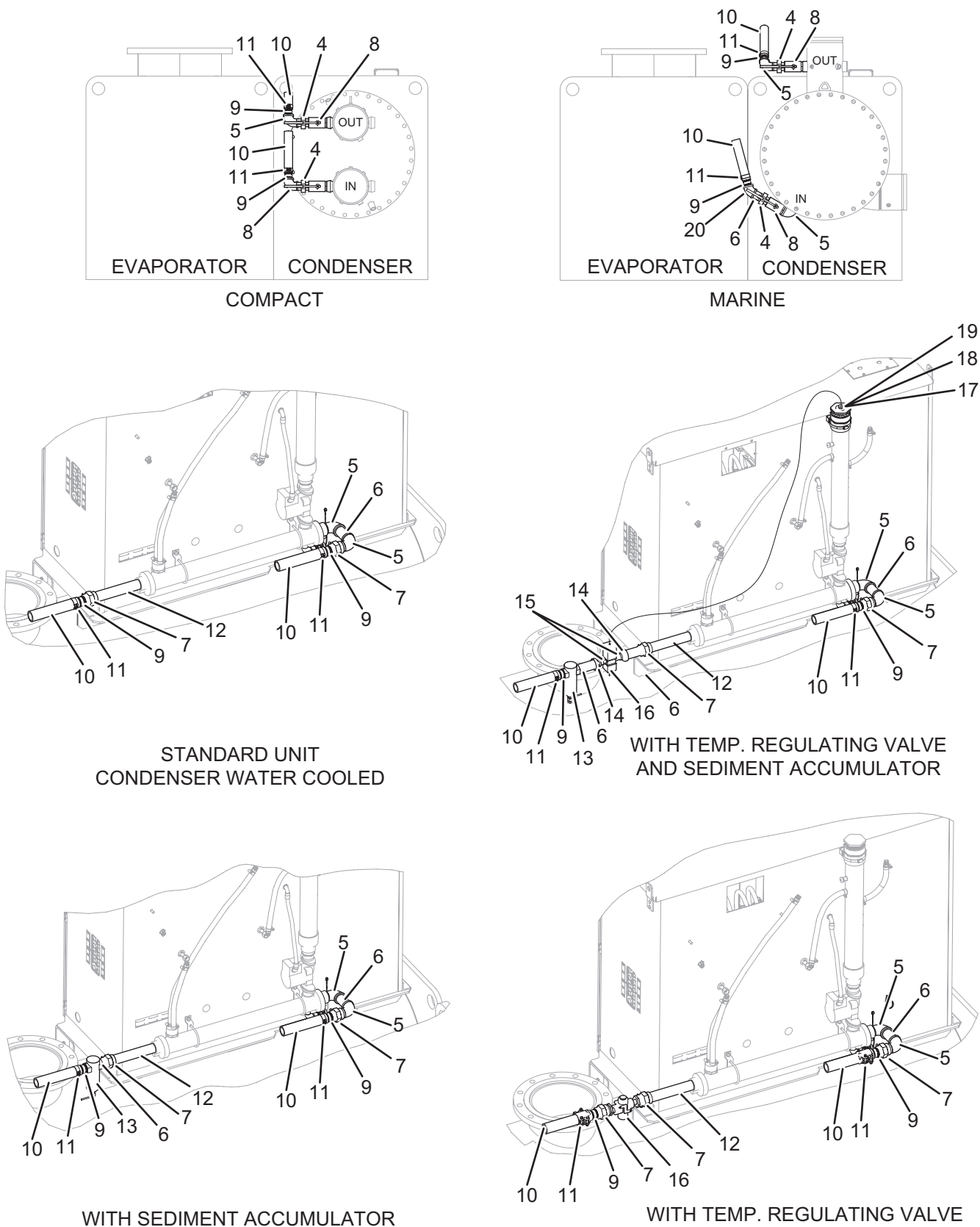


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FIGURE 27 - SYSTEM WIRING

TABLE 27 - VSD INSTALLATION KIT

ITEM	PSI	SEDIMENT ACCUMULA- TOR	REGULATING VALVE	OBJECT DESCRIPTION	PART NUMBER	SAP NUMBER	FIGURE
4	All	Yes & No	Yes & No	Union, Straight 1-1/2 M/F	023-25909-000	990339	28
5	All	Yes & No	Yes & No	Elbow Screw Street 1-1/2 NPTI	023-17785-000	617581	28
6	All	Yes & No	Yes & No	Nipple TBE 1-1/2 Sch40 4-3/4 Galv St	023-16224-000	146705	28
7	All	Yes & No	Yes & No	Union Scr 1-1/2 NPTI GRD	023-17625-000	146679	28
8	All	Yes & No	Yes & No	Valve Ball 1-1/2 NPTE	022-11919-000	617143	28
9	All	Yes & No	Yes & No	Adapter Combination 1-1/2 MPT	023-20295-000	60699	28
10	150	Yes & No	Yes & No	Hose, 150 PSI, 1-1/2 Id X 2 to 2-1/32 O	028-15001-000	144455	28
	300	No	No	Hose, 300 PSI, 1-1/2 Id X 2-3/64	028-15028-000	144458	28
11	150	Yes & No	Yes & No	Clamp T-Bolt 45.7 - 53.3mm SS	021-30656-000	60683	28
	300	No	No	Clamp DBLE Blt 38.1 - 61.0mm MI	023-40048-000	116365	28
12	All	Yes & No	No	Nipple Tbe 1-1/2 Sch40 10-1/4 Galv ST	023-16226-000	146706	28
13	150	Yes	Yes & No	Separator W/1-1/2 NPTI Conn's	022-11774-000	514984	28
14	150	Yes	Yes	CPLG NPTI MIG 150# 1.50 X .75	023-17587-000	160697	28
15	150	Yes	Yes	Nipple TBE 3/4 Sch80 1-3/4 Galv St	023-24325-000	733912	28
16	150	Yes	Yes	Valve Reg Temp	022-08817-000	116003	28
17	150	Yes	Yes	Conduit Bushing 3 X 1-1/2 MPT X FPT	028-17995-000	5484055	28
18	150	Yes	Yes	Conduit Bushing 1-1/2 X 1/2 MPT X FPT	028-17996-000	5484056	28
19	150	Yes	Yes	Conduit Plug 1/2 MPT PVC	028-17997-000	5484057	28
20	All	Yes & No	No	Elbow Scr 1-1/2 X 11-1/2 NPTI 45°	023-11637-000	146762	28



LD28099

FIGURE 28 - VSD INSTALLATION KIT

TABLE 28 - GASKETS KITS

ITEM NUMBER	DRIVE	DESCRIPTION	PART NUMBER	SAP NUMBER
1	330HP	Gasket Round ANSI 3.00-150#	028-15075-008	684401
	410HP	Gasket Round DN=6-7/8in CL150	028-15075-010	689698
	680HP, 950HP	Gasket Round DN=8-3/4in CL150	028-15075-012	705347
2	330HP, 410HP, 680HP, 950HP	O-Ring NEO1 02.234ID .139 THK M	028-16598-000	711308
3	330HP, 410HP, 680HP, 950HP	O-Ring NEO1 02.600ID .210 THK M	028-14469-000	741886
4	330HP, 410HP, 680HP, 950HP	Gasket Round DN=13-3/8in CL150	028-15075-014	741978
5	330HP	Gasket 11.125 ID X 1.000 W X .063 THK	028-17341-010	5260912
	410HP, 680HP, 950	Gasket Round DN=16-1/8in CL150	028-15075-015	741979
6	330HP	Gasket 18.375 ID X 1.000 W X .063 THK	028-17341-018	5260916
	410HP, 680HP, 950HP	Gasket 13.125 ID X 1.000 W X .063 THK	028-17341-012	5260913
7	330HP	O-Ring NEO1 00.739ID .070 THK M	028-12961-015	618651
	410HP	Gasket 20.375 ID X 1.000 W X .063 THK	028-17341-020	5260917
	680HP, 950HP	Gasket 24.375 ID X 1.000 W X .063 THK	028-17341-024	5260918
8	330HP, 410HP	O-Ring NEO1 00.364ID .070 THK M	028-12961-012	618648
	680HP, 950HP	Gasket 16.375 ID X 1.000 W X .063 THK	028-17341-016	5260915
9	330HP, 410HP, 680HP, 950HP	O-Ring NEO1 00.489ID .070 THK M	028-12961-013	618649

TABLE 29 - EVAPORATOR THERMAL FLOW SENSOR

DESCRIPTION	PART NUMBER	SAP
Harness, Flow Switch	392-51870-904	5475457
Sensor Flow 1/4" NPT Conn	025-43553-000	618247
Connector, Micro 5 Pole	025-42799-000	740141

TABLE 30 - CONDENSER THERMAL FLOW SENSOR

DESCRIPTION	PART NUMBER	SAP
Harness, Flow Switch	392-51870-904	5475457
Sensor Flow 1/4" NPT Conn	025-43553-000	618247
Connector, Micro 5 Pole	025-42799-000	740141

TABLE 31 - EVAPORATOR FLOW SWITCH

TYPE	RATING	
	150 PSI	300 PSI
Paddle	024-26116-200	024-12144-000
Differential	025-30919-000	025-30919-000

TABLE 32 - CONDENSER FLOW SWITCH

TYPE	RATING	
	150 PSI	300 PSI
Paddle	024-26116-200	024-12144-000
Differential	025-30919-000	025-30919-000

TABLE 33 - BAS NETWORK INTERFACE

DESCRIPTION	PART NUMBER	SAP
SC-EQ Board	031-03610-000	5161465
E-Link W/Serial Ports (LON)	025-44384-000	740489
E-Link OptiView/Latitude Panel	025-43894-000	703144

TABLE 34 - NEOPRENE ISOLATORS

WEIGHT	PART NUMBER
0-7423	028-14462-000
7424-13079	028-14459-000
13078-24280	028-14460-000
24281-45569	028-14461-000
45570-58967	028-15070-000
58968-91140	028-14461-000

TABLE 35 - SPRING ISOLATORS

WEIGHT	PART NUMBER	
	UL/ASME, CE/PED	ASIA, CCC/GB
4535-8874	029-23716-000	029-27491-000
8875-9000	029-21793-000	029-27491-000
9001-11094	029-21793-000	029-27492-000
11095-11200	029-21376-000	029-27492-000
11201-13982	029-21376-000	029-27493-000
13983-15880	029-20933-000	029-27493-000
15881-16800	029-20934-000	029-27493-000
16801-19200	029-20934-000	029-27494-000
19201-20974	029-20934-000	029-27495-000
20975-24000	029-20935-000	029-27495-000
24001-26467	029-20935-000	029-27496-000

26468-28800	029-20936-000	029-27496-000
28801-35031	029-20936-000	029-27497-000
35032-36000	029-21388-000	029-27497-000
36001-40524	029-21388-000	029-27498-000
40525-43200	029-24121-000	029-27498-000
43201-52163	029-24121-000	029-27499-000
52164-60000	029-24384-001	029-27499-000
60001-86183	029-24384-001	029-27500-000
86184-88000	None	029-27500-000

TABLE 36 - CONSUMABLES (CORROSION INHIBITOR + TOUCH-UP PAINTS)

DRIVE TYPE	PART NUMBER
P033NA, P033HA, P042NA, P042HA	013-04129-000
P078NA, P078HA	013-04129-000
P102NA, P102HA, P128NA, P128HA	013-04129-000



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