



YIA SINGLE STAGE ABSORPTION CHILLERS WITH OPTIVIEW™ CONTROL CENTER

RENEWAL PARTS

Supersedes: 155.21-RP2 (710)

Form 155.21-RP2 (113)

YIA MOD D STEAM YIA-ST-1A1 THRU YIA-ST-14F3 HOT WATER YIA-HW-1A1 THRU YIA-HW-14F3



LD14498

Issue Date:
January 31, 2013



IMPORTANT!

READ BEFORE PROCEEDING!

GENERAL SAFETY GUIDELINES

This equipment is a relatively complicated apparatus. During installation, operation maintenance or service, individuals may be exposed to certain components or conditions including, but not limited to: 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 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 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 this document and any referenced materials. This individual shall also be familiar with and comply with all applicable 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:



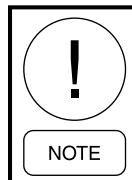
Indicates a possible hazardous situation which will result in death or serious injury if not proper care is not taken.



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 and 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 OptiView 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 owner. Updated manuals, if applicable, can be obtained by contacting the nearest Johnson Controls Service office.

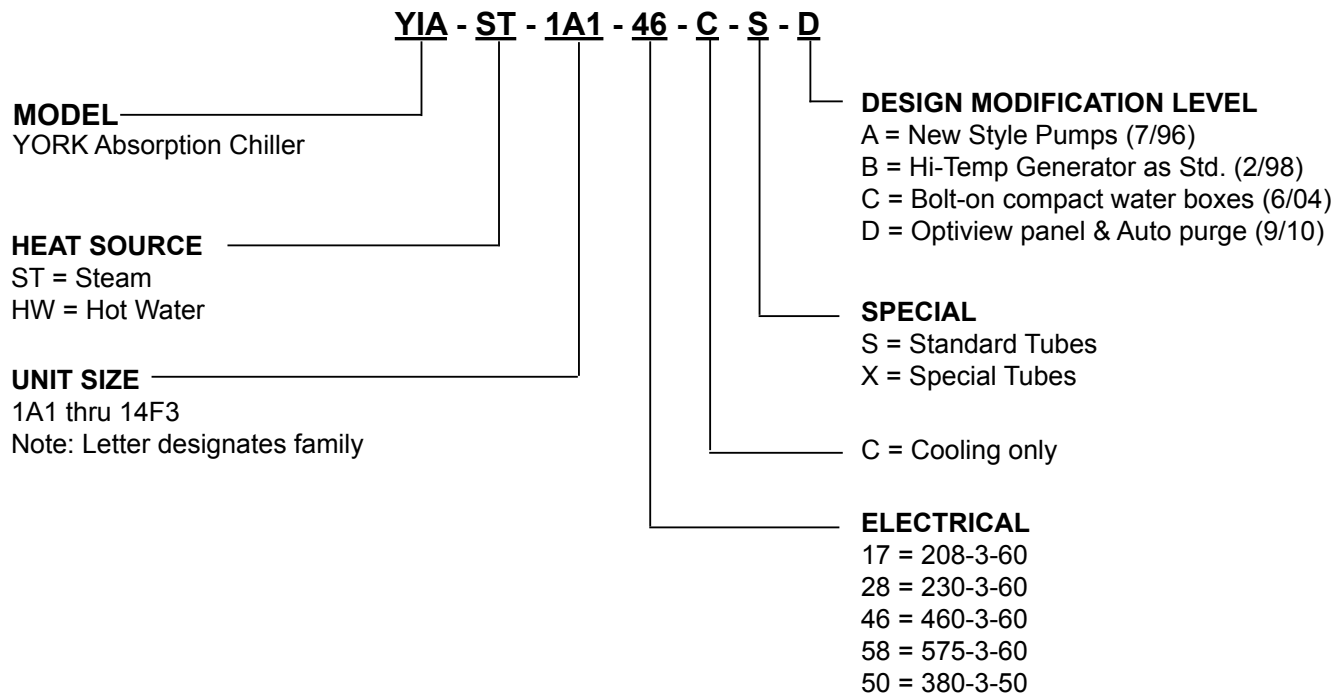
Operating/service personnel maintain responsibility for the applicability of these documents to the equipment. If there is any question regarding the applicability of

these documents, the technician 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.

CHANGE BARS

Revisions made to this document are indicated with a line along the left or right hand column in the area the revision was made. These revisions are to technical information and any other changes in spelling, grammar or formatting are not included.

NOMENCLATURE



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INTRODUCTION

This renewal parts manual provides the correct replacement part numbers for the YIA Mod D chillers introduced in September 2010 (refer to *Figure 1*).

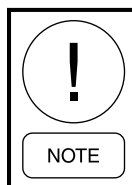
Numerous changes have been made with the development of YIA Mod D; refer to the *YIA Renewal Parts Manual - Form 155.16-RP3* for prior Mod levels.

Mod D incorporates the following changes:

- The OptiView™ Control Panel replaces the Millennium Control.
- A purge tank replaces the purge drum, and new auto-purge capabilities replace the manual purge system.
- New thinner walled tubes (0.025" wall) are standard in the absorber, evaporator, and condenser sections.
- 2-inch sight glasses replace 1-1/2 inch sight glasses in prior Mod levels.

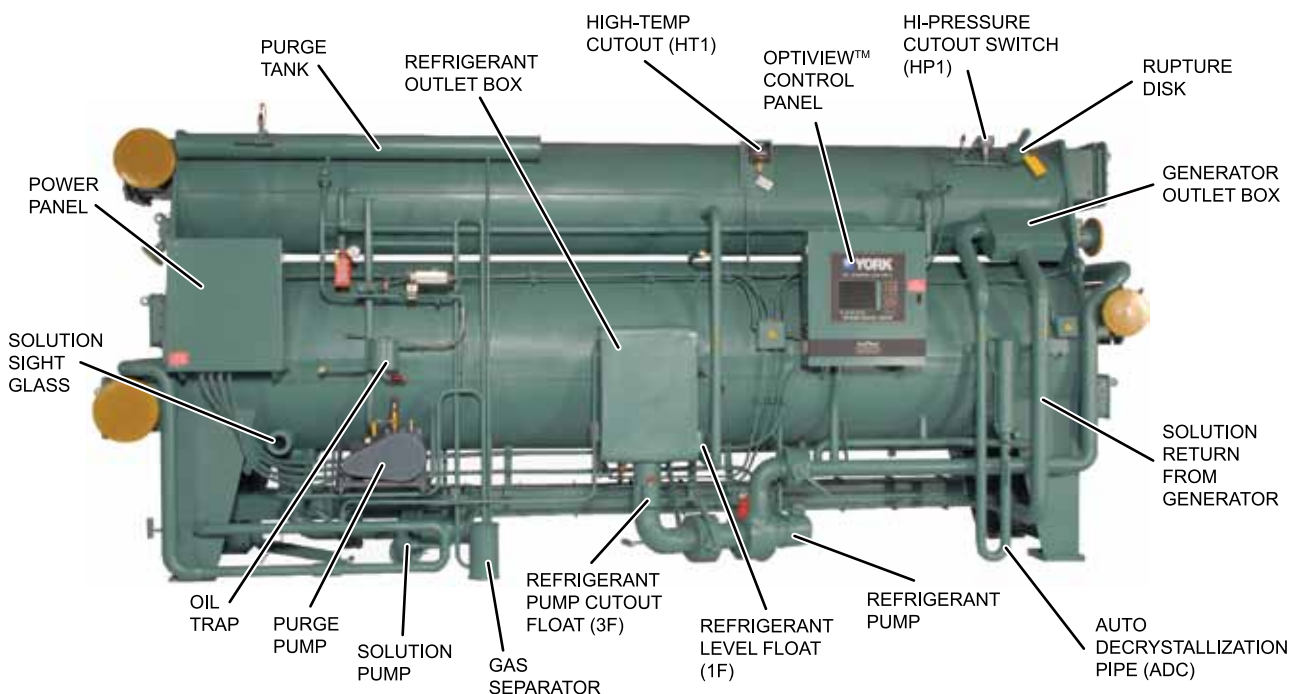
- An additional temperature sensor (RT10) is included to monitor the solution leaving the Solution-To-Solution (STS) heat exchanger.

- Thermal type flow sensors are factory-mounted in the evaporator and condenser outlet nozzles.



Part numbers for the OptiView™ Control Panel (NEMA and CE) are listed in the *Renewal Parts for YIA with OptiView™ Control Panel Manual - Form 155.21-RP1 (1109)*.

This manual also introduces the Refrigerant Level Cutout Switch (1F) and Refrigerant Pump Cutout Switch (3F) which are upgrades from the float-style switches. Part numbers for these switches are listed in the *System Control Components* section of this manual.

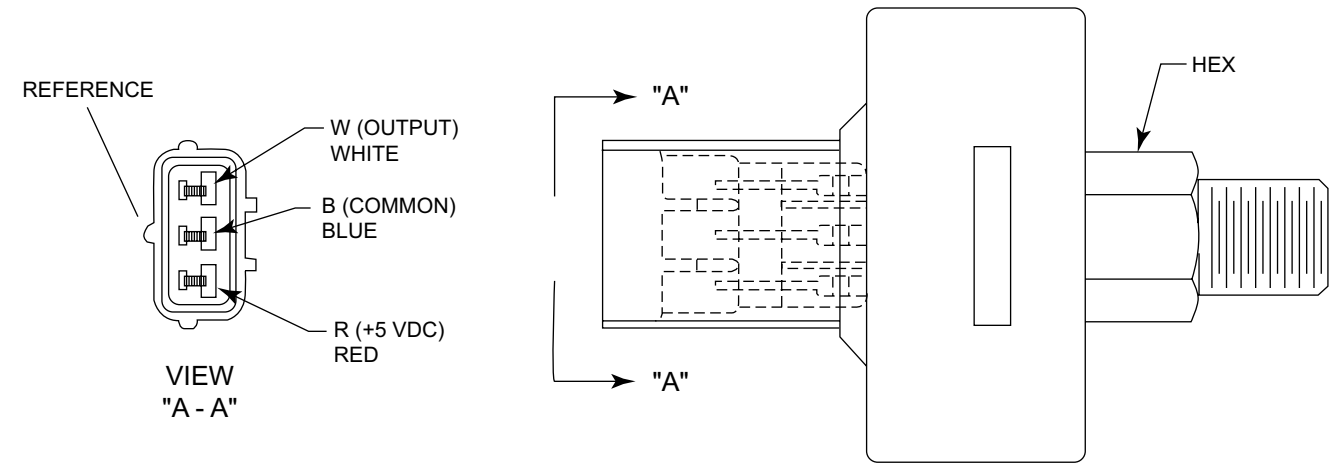


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FIGURE 1 - YIA SINGLE STAGE ABSORPTION CHILLER WITH OPTIVIEW™ CONTROL CENTER

HARNESS AND SENSOR CONNECTIONS

PROPER WIRING FOR TRANSDUCERS



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FIGURE 2 - PROPER WIRING FOR TRANSDUCERS

THERMISTOR CONNECTIONS

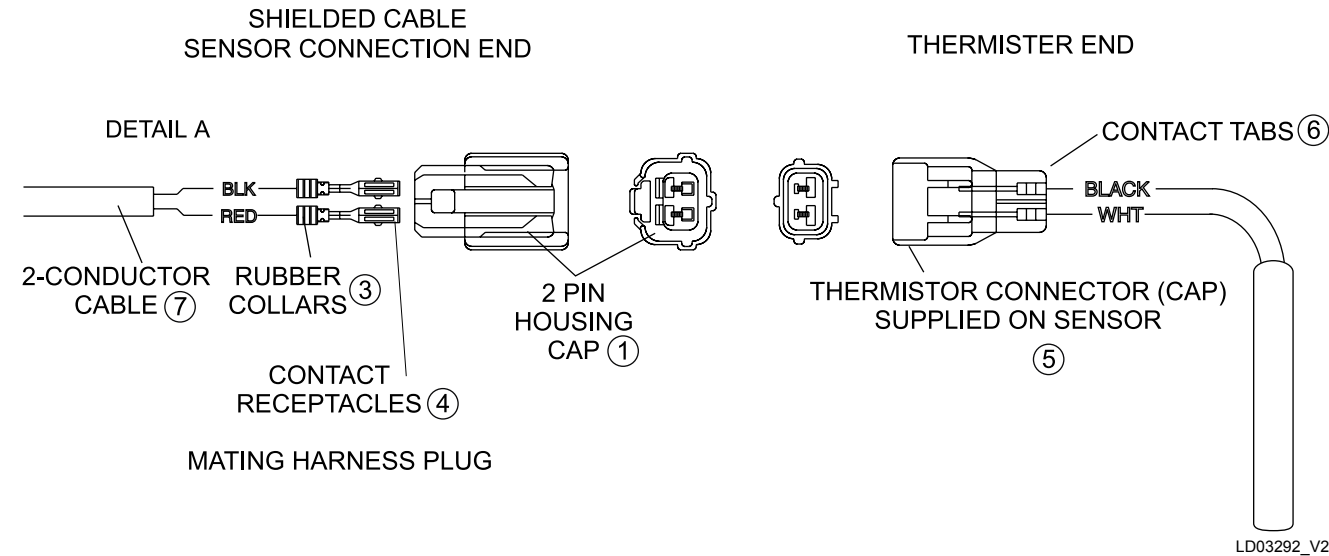
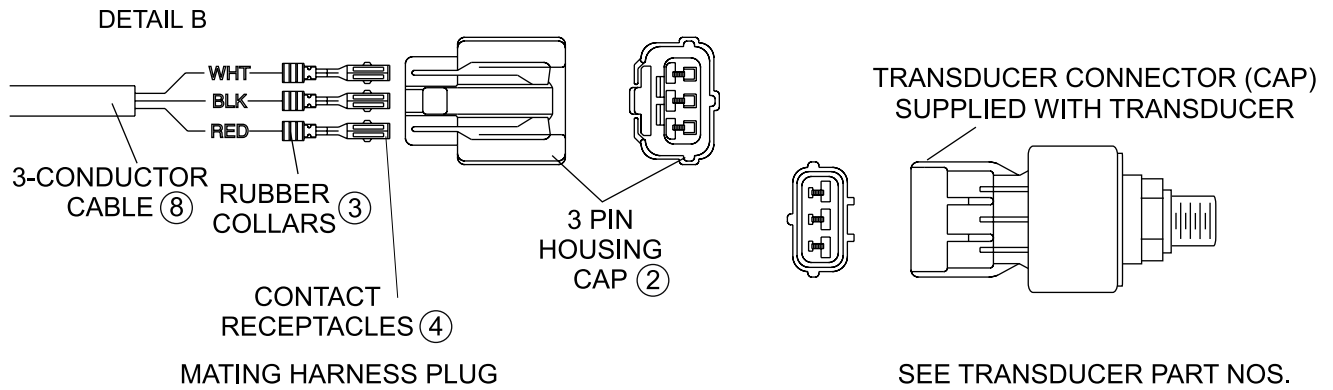


FIGURE 3 - THERMISTOR CONNECTIONS (DETAIL A)

HARNESS AND SENSOR CONNECTIONS (CONT'D)

TRANSDUCER CONNECTIONS



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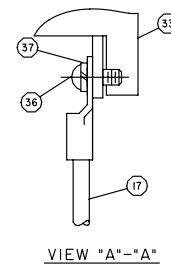
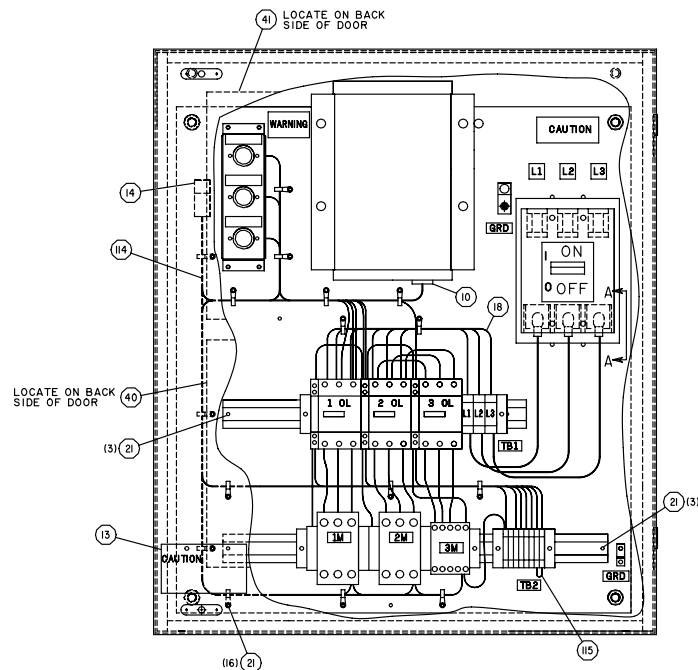
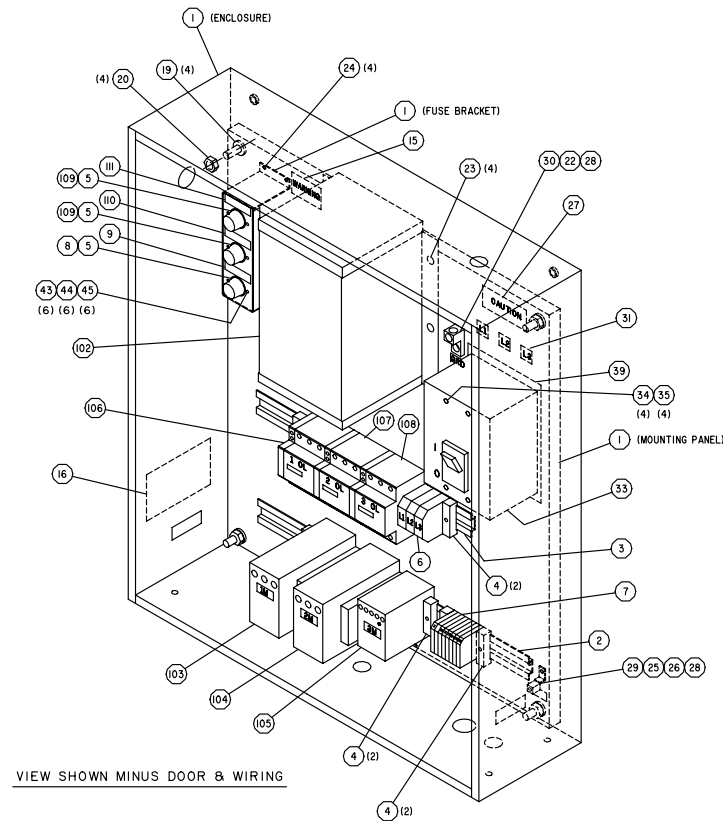
FIGURE 4 - TRANSDUCER CONNECTIONS (DETAIL B)

TABLE 1 - HARNESS AND SENSOR CONNECTIONS

ITEM SHELL CODE	YORK PART NUMBER	DESCRIPTION
1	025-28951-000	2 Pin Housing
2	025-28954-000	3 Pin Housing
3	025-28950-000	Rubber Collars
4	025-28952-000	Contact Receptacles
5	025-28948-000	2 Pin Housing Supplied With Thermistor
6	025-28949-000	Contact Tabs Supplied With Thermistor
7	025-28701-002	2 Conductor Shielded Cable
8	025-28701-003	3 Conductor Shielded Cable

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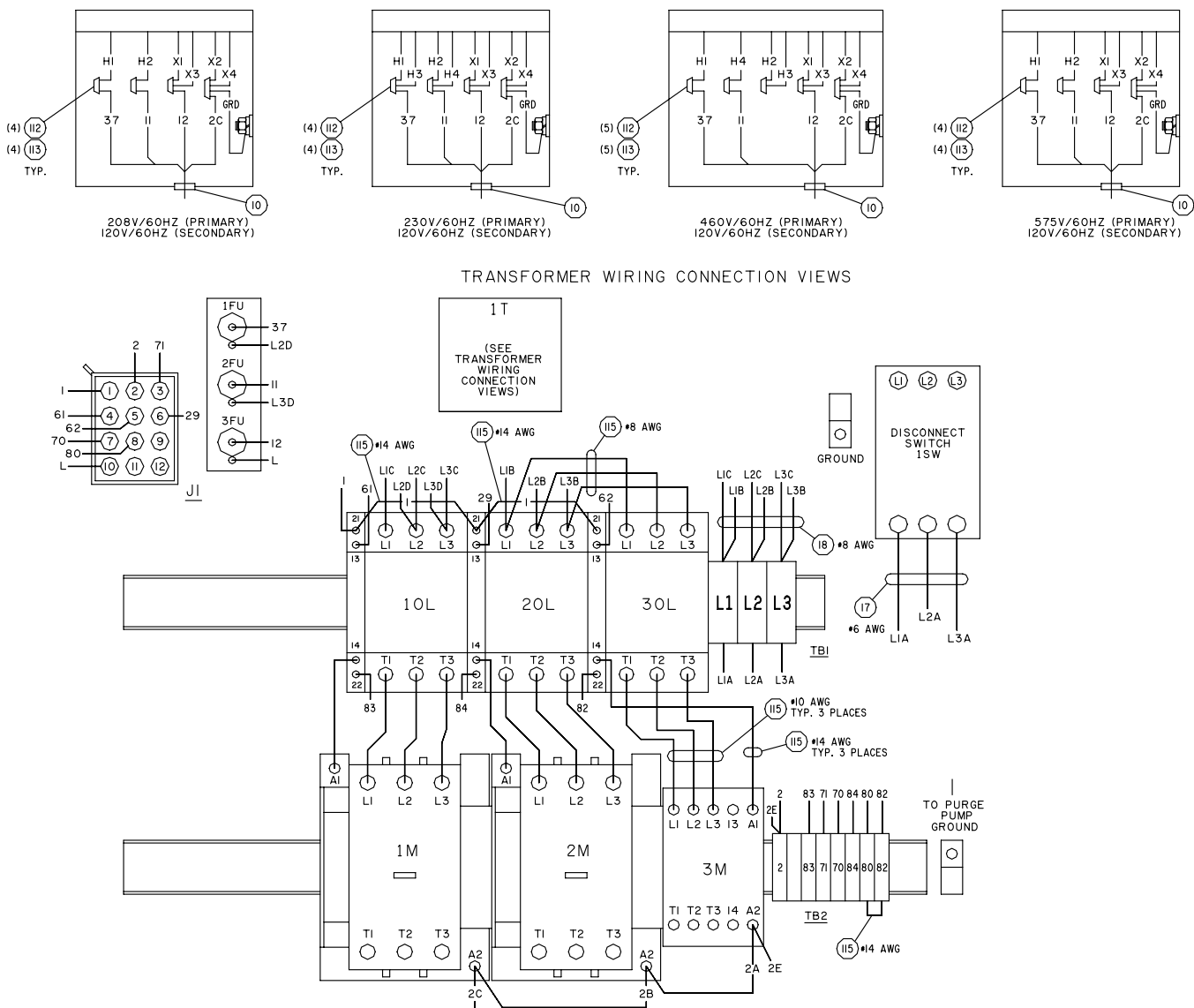
POWER PANEL - 60 Hz STANDARD UNITS



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FIGURE 5 - POWER PANEL - 60 HZ STANDARD UNITS

POWER PANEL - 60 Hz STANDARD UNITS (CONT'D)



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FIGURE 6 - POWER PANEL - 60 HZ STANDARD UNITS (CONT'D)

POWER PANEL - 60 Hz STANDARD UNITS (CONT'D)

TABLE 2 - COMMON PARTS FOR POWER PANEL - 60 HZ STANDARD UNITS

POWER PANEL COMPONENTS - MISCELLANEOUS PARTS FOR 60 HZ STANDARD UNITS (ALL MODELS)				
ITEM	DESCRIPTION	FIGURE	QUANTITY	PART NUMBER
1	Enclosure and Door	5	1	371 01290 301
2	Contactor mounting rail	5	1	071 01290 303
3	Overload mounting rail	5	1	071 01290 304
4	Rail clamp	5	6	025 29189 000
5	Fuseholder	5	3	025 17407 000
6	Terminal Block, 3 pole	5	1	025 29166 000
7	Terminal Block, 8 pole	5	1	025 32555 000
8	Fuse, 10 amp	5	1	025 27971 000
9	Label, Fuse (3FU)	5	1	035 09710 001
10	Snap Bushing	6	1	025 10209 000
13	Label, Caution	5	1	035 03908 000
14*	Housing, Plug, 12 pin universal	6	1	025 21196 000
15	Label, Warning	5	1	035 12603 000
16	Nameplate (unstamped)	5	1	071 05294 000
17	Harness, Power Disconnect	5	1	571 05272 213
18	Harness, Power Overload	5	1	571 01290 221
19	Lockwasher, Internal Tooth 3/8"	5	4	021 01155 000
20	Nut, Hex 3/8 16	5	4	021 00467 000
21	Screw, Tap Pan Head, #10-x 1/2"	5	22	021 13789 000
22	Nut, KEPS 1/4-20	5	1	021 17269 000
23	Screw, SEMS, #10-24 x 1/2"	5	4	021 17596 000
24	Screw, Tap, Serrated Head, #8 x 1/2"	5	4	021 12889 000
25	Lockwasher, Internal Tooth #10	5	1	021 01137 000
26	Nut, Hex #10-24	5	1	021 08282 000
27	Label, Caution	5	1	035 05548 000
28	Label, Ground	5	2	030 15990 000
29	Terminal Ground Lug	5	1	025 29194 000
30	Terminal Lug	5	1	025 19985 000
31	Label, Identification Input	5	1	035 09316 000
33	Switch, Disconnect, 100 amp	5	1	024 25575 000
34	Screw, Pan Head, #8-32 x 3-1/2"	5	4	021 17662 000
35	Lockwasher, Tooth #8	5	4	021 01133 000
36	Screw, Round Head, 1/4-20 x 1"	5	3	021 01903 000
37	Lockwasher, Spring 1/4"	5	3	021 08276 000
39	Insulator, Disconnect, 100 amp	5	1	025 29934 001
40	Label, Connection	5	1	035 21970 000
41	Label, Elementary	5	1	035 21969 000
43	Screw, Pan Head, #6-32 x 1/2"	5	6	021 01696 000
44	Lockwasher, Tooth #6	5	6	021 01132 000
45	Nut, Hex #6-32	5	6	021 08281 000

* Requires 9 pins - YORK Part Number 025-19673-000

POWER PANEL - 60 Hz STANDARD UNITS (CONT'D)

TABLE 3 - VARIABLE PARTS FOR POWER PANEL - 60 HZ STANDARD UNITS

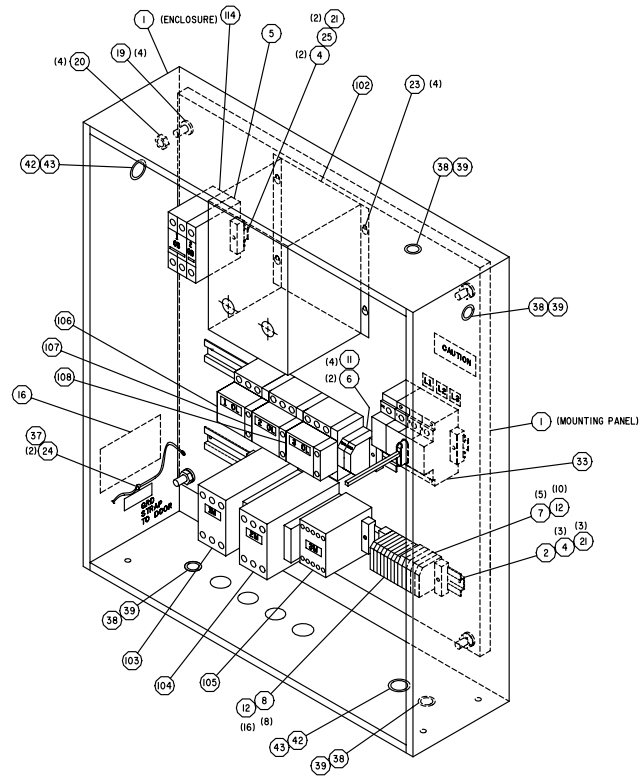
POWER PANEL MAIN COMPONENTS - 60 HZ STANDARD UNITS						
DESCRIPTION	ITEM	VOLTAGE	QTY.	MODELS (HOT WATER AND STEAM)		
				YIA-1A1 THRU YIA-2B1	YIA-3B2 THRU YIA-5C3	YIA-6C4 AND YIA-7D1
Transformer (1T)	102	208	1	025 28664 001	025 28664 001	025 28664 001
		230/460	1	025 28664 002	025 28664 002	025 28664 002
		575	1	025 28664 004	025 28664 004	025 28664 004
Contactor (1M) Solution Pump	103	208/230	1	024 25584 000	024 25584 000	024 25584 000
		460	1	024 25521 000	024 25526 000	024 25526 000
		575	1	024 25521 000	024 25521 000	024 25521 000
Contactor (2M) Refrigerant Pump	104	208/230	1	024 25584 000	024 25584 000	024 25584 000
		460	1	024 25521 000	024 25521 000	024 25521 000
		575	1	024 25521 000	024 25521 000	024 25521 000
Contactor (3M) Purge Pump	105	ALL	1	024 25521 000	024 25521 000	024 25521 000
Motor Protector (1OL) Solution Pump	106	208	1	024 27282 000	025 34489 000	025 34489 000
		230	1	024 27282 000	025 34489 000	025 34489 000
		460	1	024 27281 000	024 31859 000	024 31859 000
		575	1	024 27267 000	024 27281 000	024 27281 000
Motor Protector (2OL) Refrigerant Pump	107	208	1	024 27282 000	024 27282 000	024 27282 000
		230	1	024 27282 000	024 27282 000	024 27282 000
		460	1	024 27281 000	024 27281 000	024 27281 000
		575	1	024 27267 000	024 27267 000	024 27267 000
Motor Protector (3OL) Purge Pump	108	208/230	1	024 27279 000	024 27279 000	024 27279 000
		460/575	1	024 27279 000	024 27279 000	024 27279 000
Fuse, Primary 1FU & 2FU	109	208	2	025 27972 000	025 27972 000	025 27972 000
		230	2	025 27971 000	025 27971 000	025 27971 000
		460	2	025 27922 000	025 27922 000	025 27922 000
		575	2	025 35901 000	025 35901 000	025 35901 000
Label, Fuse (2FU)	110	208	1	035 09710 002	035 09710 002	035 09710 002
		230	1	035 09710 004	035 09710 004	035 09710 004
		460	1	035 09710 006	035 09710 006	035 09710 006
		575	1	325 22109 001	325 22109 001	325 22109 001
Label, Fuse (1FU)	111	208	1	035 09710 003	035 09710 003	035 09710 003
		230	1	035 09710 005	035 09710 005	035 09710 005
		460	1	035 09710 007	035 09710 007	035 09710 007
		575	1	325 22109 001	325 22109 001	325 22109 001
Ferrule	112	208/230/575	4	025 10372 000	025 10372 000	025 10372 000
		460	5	025 10372 000	025 10372 000	025 10372 000
Insulator	113	208/230/575	4	025 10371 000	025 10371 000	025 10371 000
		460	5	025 10371 000	025 10371 000	025 10371 000
Main Harness	114	ALL	1	571 05272 221	571 05272 221	571 05272 221
Loose Harness	115	ALL	1	571 05272 211	571 05272 211	571 05272 211

Refer to Figures 5 and 6

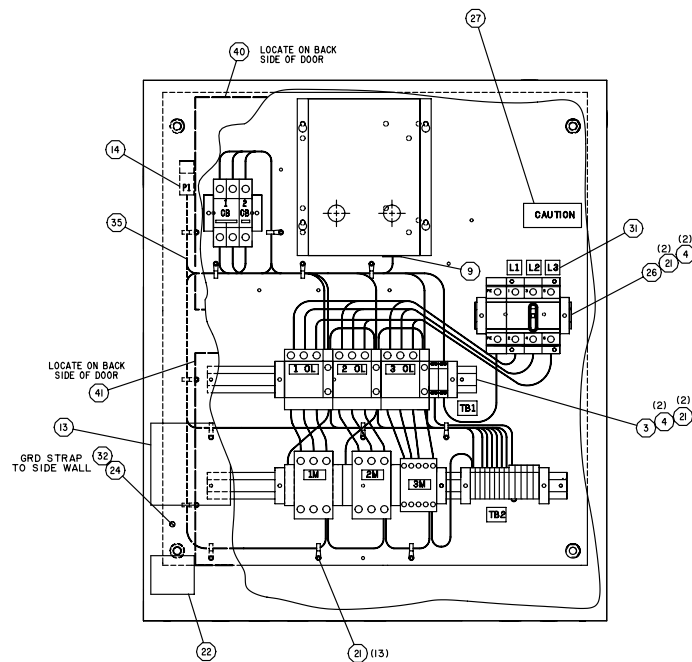
POWER PANEL MAIN COMPONENTS - 60 HZ STANDARD UNITS					
MODELS (HOT WATER AND STEAM)					
YIA-7D2 AND YIA-8D3	YIA-8E1	YIA-9E2	YIA-10E3	YIA-12F1	YIA-13F2 AND YIA-14F3
025 28664 001	025 28664 001	025 28664 001	025 28664 001	025 28664 001	025 28664 001
025 28664 002	025 28664 002	025 28664 002	025 28664 002	025 28664 002	025 28664 002
025 28664 004	025 28664 004	025 28664 004	025 28664 004	025 28664 004	025 28664 004
024 25585 000	024 25585 000	024 25585 000	024 25585 000	024 25585 000	024 25585 000
024 25584 000	024 25584 000	024 25584 000	024 25584 000	024 25584 000	024 25584 000
024 25526 000	024 25526 000	024 25584 000	024 25584 000	024 25526 000	024 25584 000
024 25584 000	024 25584 000	024 25584 000	024 25585 000	024 25585 000	024 25585 000
024 25521 000	024 25521 000	024 25526 000	024 25584 000	024 25584 000	024 25584 000
024 25521 000	024 25521 000	024 25521 000	024 25526 000	024 25526 000	024 25584 000
024 25521 000	024 25521 000	024 25521 000	024 25521 000	024 25521 000	024 25521 000
024 25581 000	024 25581 000	024 25582 000	024 25582 000	024 25581 000	024 25582 000
024 25581 000	024 25581 000	024 25582 000	024 25582 000	024 25581 000	024 25582 000
024 27283 000	024 27283 000	024 34489 000	024 34489 000	024 27283 000	024 34489 000
024 25582 000	024 27282 000	024 27283 000	024 27283 000	024 27282 000	024 27283 000
024 27282 000	024 27282 000	025 34489 000	024 25581 000	024 25581 000	024 25581 000
024 27282 000	024 27282 000	025 34489 000	024 25581 000	024 25581 000	024 25581 000
024 27281 000	024 27281 000	024 31859 000	024 27283 000	024 27283 000	024 27283 000
024 27267 000	024 27267 000	024 27281 000	024 27282 000	024 27282 000	024 27282 000
024 27279 000	024 27279 000	024 27279 000	024 27279 000	024 27279 000	024 27279 000
024 27279 000	024 27279 000	024 27279 000	024 27279 000	024 27279 000	024 27279 000
025 27972 000	025 27972 000	025 27972 000	025 27972 000	025 27972 000	025 27972 000
025 27971 000	025 27971 000	025 27971 000	025 27971 000	025 27971 000	025 27971 000
025 27922 000	025 27922 000	025 27922 000	025 27922 000	025 27922 000	025 27922 000
025 35901 000	025 35901 000	025 35901 000	025 35901 000	025 35901 000	025 35901 000
035 09710 002	035 09710 002	035 09710 002	035 09710 002	035 09710 002	035 09710 002
035 09710 004	035 09710 004	035 09710 004	035 09710 004	035 09710 004	035 09710 004
035 09710 006	035 09710 006	035 09710 006	035 09710 006	035 09710 006	035 09710 006
325 22109 001	035 22109 001	035 22109 001	035 22109 001	035 22109 001	035 22109 001
035 09710 003	035 09710 003	035 09710 003	035 09710 003	035 09710 003	035 09710 003
035 09710 005	035 09710 005	035 09710 005	035 09710 005	035 09710 005	035 09710 005
035 09710 007	035 09710 007	035 09710 007	035 09710 007	035 09710 007	035 09710 007
325 22109 001	035 22109 002	035 22109 002	035 22109 002	035 22109 002	035 22109 002
025 10372 000	025 10372 000	025 10372 000	025 10372 000	025 10372 000	025 10372 000
025 10372 000	025 10372 000	025 10372 000	025 10372 000	025 10372 000	025 10372 000
025 10371 000	025 10371 000	025 10371 000	025 10371 000	025 10371 000	025 10371 000
025 10371 000	025 10371 000	025 10371 000	025 10371 000	025 10371 000	025 10371 000
571 05272 221	571 05272 221	571 05272 221	571 05272 221	571 05272 221	571 05272 221
571 05272 211	571 05272 211	571 05272 211	571 05272 211	571 05272 211	571 05272 211

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PANEL POWER - 60 Hz NEMA 4 UNITS



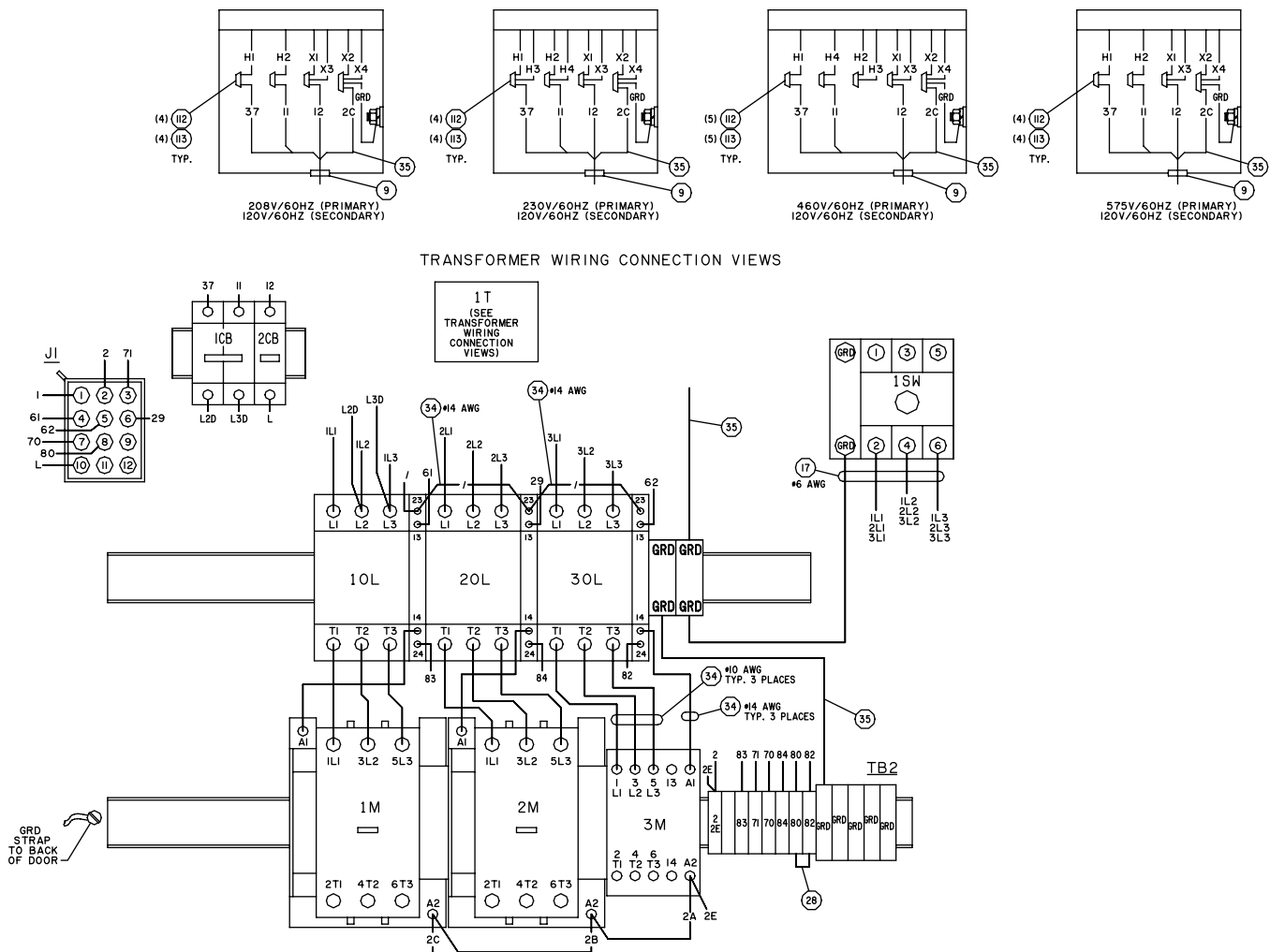
VIEW SHOWN MINUS DOOR & WIRING



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FIGURE 7 - POWER PANEL - 60 HZ NEMA 4 UNITS

POWER PANEL - 60 Hz NEMA 4 UNITS (CONT'D)



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FIGURE 8 - POWER PANEL - 60 HZ NEMA 4 UNITS (CONT'D)

POWER PANEL - 60 Hz NEMA 4 UNITS (CONT'D)

TABLE 4 - COMMON PARTS FOR POWER PANEL - 60 HZ NEMA 4 UNITS

POWER PANEL COMPONENTS - MISCELLANEOUS PARTS FOR 60 HZ NEMA 4 UNITS (ALL MODELS)				
ITEM	DESCRIPTION	FIGURE	QUANTITY	PART NUMBER
1	Enclosure and Door	7	1	371 01473 301
2	Contactor mounting rail	7	1	071 01290 303
3	Overload mounting rail	7	1	071 01290 304
4	Rail clamp	7	9	025 29189 000
5	Circuit Breaker, 10 amp, Single Pole	7	1	024 26946 000
6	Terminal Block	7	2	025 31444 000
7	Terminal Block	7	5	025 31443 000
8	Terminal Block	7	8	025 31442 000
9	Snap Bushing	7	1	025 10209 000
11	Marker, Terminal Block	7	0.4	025 31445 000
12	Marker, Terminal Block	7	2.6	025 31446 000
13	Label, Caution	7	1	035 09999 000
14*	Housing, Plug, 12 pin universal	8	1	025 21196 000
16	Nameplate (unstamped)	7	1	071 05294 000
17	Harness, Power Disconnect	8	1	571 05274 212
19	Lockwasher, Internal Tooth 3/8"	7	4	021 01155 000
20	Nut, Hex 3/8-16	7	4	021 00467 000
21	Screw, Tap Pan Head, #10-x 1/2"	7	22	021 13789 000
22	Label, Warning	7	1	035 11929 000
23	Screw, SEMS, #10-24 x 1/2"	7	4	021 17596 000
24	Nut, KEPS, 1/4-20	7	3	021 17269 000
25	Mounting Rail, Circuit Breaker	7	1	071 01473 303
26	Mounting Rail, Switch	7	1	071 01472 302
27	Label, Caution	7	1	035 05548 000
28	Jumper	8	1	025 31474 000
31	Label, Identification Input	7	1	035 09316 000
32	Grounding Strap	7	1	225 32812 001
33	Disconnect Switch	7	1	024 30981 000
34	Harness, Loose	8	1	571 05274 211
35	Harness, Main	7	1	571 05274 221
37	Grounding Strap	7	1	225 32812 002
38	Conduit Plug 1/2"	7	4	025 31400 000
39	Nut, 1/2"	7	4	021 18404 000
40	Label, Connection	7	1	035 21973 000
41	Label, Elementary	7	1	035 21974 000
42	Conduit Plug 3/4"	7	2	025 31401 000
43	Nut, 3/4"	7	2	021 18405 000

* Requires 9 pins - YORK Part Number 025-19673-000

POWER PANEL - 60 Hz STANDARD UNITS

TABLE 5 - VARIABLE PARTS FOR POWER PANEL - 60 HZ NEMA 4 UNITS

POWER PANEL MAIN COMPONENTS - 60 HZ STANDARD UNITS						
DESCRIPTION	ITEM	VOLTAGE	QTY.	MODELS (HOT WATER AND STEAM)		
				YIA-1A1 THRU YIA-2B1	YIA-3B2 THRU YIA-5C3	YIA-6C4 AND YIA-7D1
Transformer (1T)	102	208	1	025 28664 001	025 28664 001	025 28664 001
		230/460	1	025 28664 002	025 28664 002	025 28664 002
		575	1	025 28664 004	025 28664 004	025 28664 004
Contactor (1M) Solution Pump	103	208/230	1	024 25584 000	024 25584 000	024 25584 000
		460	1	024 25521 000	024 25526 000	024 25526 000
		575	1	024 25521 000	024 25521 000	024 25521 000
Contractor (2M) Refrigerant Pump	104	208/230	1	024 25584 000	024 25584 000	024 25584 000
		460	1	024 25521 000	024 25521 000	024 25521 000
		575	1	024 25521 000	024 25521 000	024 25521 000
Contractor (3M) Purge Pump	105	ALL	1	024 25521 000	024 25521 000	024 25521 000
Motor Protector (1OL) Solution Pump	106	208	1	024 27282 000	025 34489 000	024 34489 000
		230	1	024 27282 000	025 34489 000	024 34489 000
		460	1	024 27281 000	024 31859 000	024 31859 000
		575	1	024 27267 000	024 27281 000	024 27281 000
Motor Protector (2OL) Refrigerant Pump	107	208	1	024 27282 000	024 27282 000	024 27282 000
		230	1	024 27282 000	024 27282 000	024 27282 000
		460	1	024 27281 000	024 27281 000	024 27281 000
		575	1	024 27267 000	024 27267 000	024 27267 000
Motor Protector (3OL) Purge Pump	108	208/230	1	024 27279 000	024 27279 000	024 27279 000
		460/575	1	024 27279 000	024 27279 000	024 27279 000
Ferrule	112	208/230/575	4	025 10372 000	025 10372 000	025 10372 000
		460	5	025 10372 000	025 10372 000	025 10372 000
Insulator	113	208/230/575	4	025 10371 000	025 10371 000	025 10371 000
		460	5	025 10371 000	025 10371 000	025 10371 000
Circuit Breaker, 2-Pole	114	208	1	024 27837 000	024 27837 000	024 27837 000
		230	1	024 27836 000	024 27836 000	024 27836 000
		460	1	024 27835 000	024 27835 000	024 27835 000
		575	1	024 30903 000	024 30903 000	024 30903 000

Refer to Figures 7 and 8

POWER PANEL MAIN COMPONENTS - 60 HZ STANDARD UNITS					
MODELS (HOT WATER AND STEAM)					
YIA-7D2 AND YIA-8D3	YIA-8E1	YIA-9E2	YIA-10E3	YIA-12F1	YIA-13F2 AND YIA-14F3
025 28664 001	025 28664 001	025 28664 001	025 28664 001	025 28664 001	025 28664 001
025 28664 002	025 28664 002	025 28664 002	025 28664 002	025 28664 002	025 28664 002
025 28664 004	025 28664 004	025 28664 004	025 28664 004	025 28664 004	025 28664 004
024 25585 000	024 25585 000	024 25585 000	024 25585 000	024 25585 000	024 25585 000
024 25584 000	024 25584 000	024 25584 000	024 25584 000	024 25584 000	024 25584 000
024 25526 000	024 25526 000	024 25584 000	024 25584 000	024 25526 000	024 25584 000
024 25584 000	024 25584 000	024 25584 000	024 25585 000	024 25585 000	024 25585 000
024 25521 000	024 25521 000	024 25526 000	024 25584 000	024 25584 000	024 25584 000
024 25521 000	024 25521 000	024 25521 000	024 25526 000	024 25526 000	024 25526 000
024 25521 000	024 25521 000	024 25521 000	024 25521 000	024 25521 000	024 25521 000
024 25581 000	024 25581 000	024 25582 000	024 25582 000	024 25581 000	024 25582 000
024 25581 000	024 25581 000	024 25582 000	024 25582 000	024 25581 000	024 25582 000
024 25583 000	024 27283 000	024 34489 000	024 34489 000	024 27283 000	024 34489 000
024 25582 000	024 27282 000	024 27283 000	024 27283 000	024 27282 000	024 27283 000
024 27282 000	024 27282 000	025 34489 000	024 25581 000	024 25581 000	024 25581 000
024 27282 000	024 27282 000	025 34489 000	024 25581 000	024 25581 000	024 25581 000
024 27281 000	024 27281 000	024 31859 000	024 27283 000	024 27283 000	024 27283 000
024 27267 000	024 27267 000	024 27281 000	024 27282 000	024 27282 000	024 27282 000
024 27279 000	024 27279 000	024 27279 000	024 27279 000	024 27279 000	024 27279 000
024 227279 000	024 27279 000	024 27279 000	024 27279 000	024 27279000	024 27279 000
025 10372 000	025 10372 000	025 10372 000	025 10372 000	025 10372 000	025 10372 000
025 10372 000	025 10372 000	025 10372 000	025 10372 000	025 10372 000	025 10372 000
025 10371 000	025 10371 000	025 10371 000	025 10371 000	025 10371 000	025 10371 000
025 10371 000	025 10371 000	025 10371 000	025 10371 000	025 10371 000	025 10371 000
024 27837 000	024 27837 000	024 27837 000	024 27837 000	024 27837 000	024 27837 000
024 27836 000	024 27836 000	024 27836 000	024 27836 000	024 27836 000	024 27836 000
024 27835 000	024 27835 000	024 27835 000	024 27835 000	024 27835 000	024 27835 000
024 30903 000	024 30903 000	024 30903 000	024 30903 000	024 30903 000	024 30903 000

PANEL POWER
50 HZ, 380/400/415 VOLTS CE AND EUROPEAN COMPLIANCE UNITS

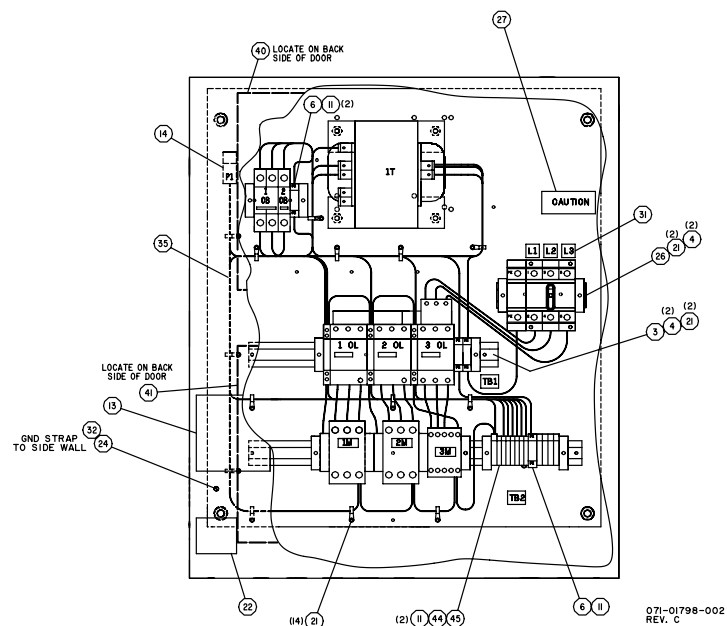
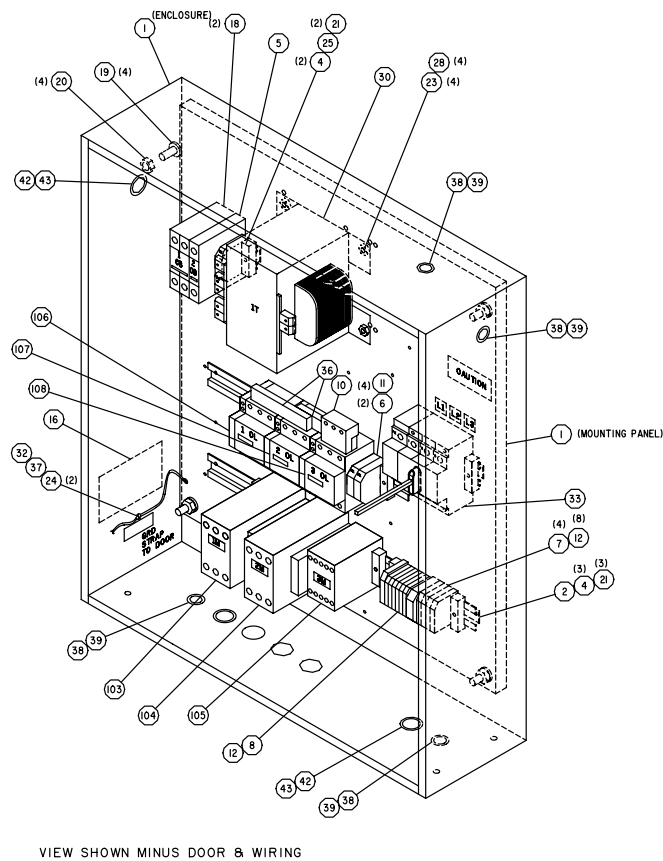
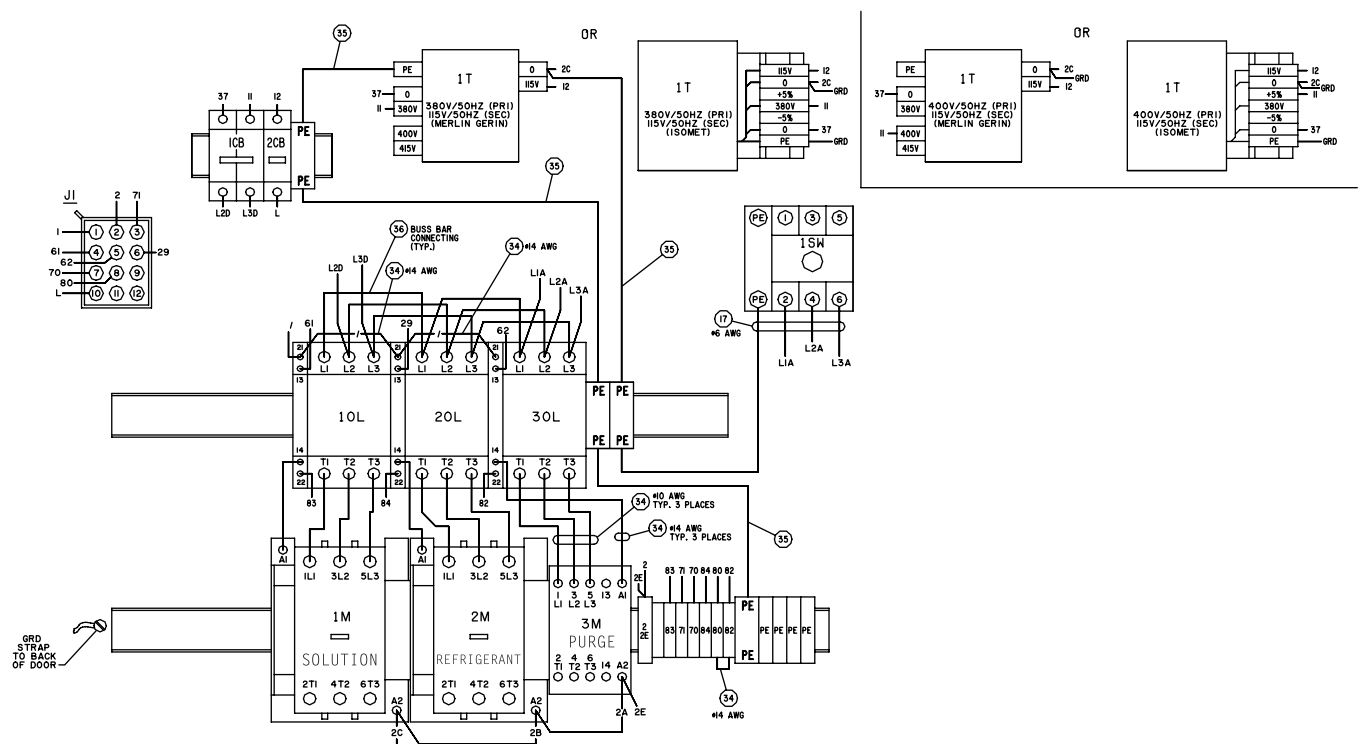


FIGURE 9 - POWER PANEL - 50 HZ, 380/400/415 VOLTS CE AND EUROPEAN COMPLIANCE UNITS

PANEL POWER

50 Hz, 380/400/415 VOLTS CE AND EUROPEAN COMPLIANCE UNITS (CONT'D)



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FIGURE 10 - POWER PANEL - 50 HZ, 380/400/415 VOLTS CE AND EUROPEAN COMPLIANCE UNITS (CONT'D)

PANEL POWER

50 Hz, 380/400/415 VOLTS CE AND EUROPEAN COMPLIANCE UNITS (CONT'D)

TABLE 6 - COMMON PARTS FOR POWER PANEL - 50 HZ, 380/400/415 VOLTS CE AND EUROPEAN COMPLIANCE UNITS

POWER PANEL COMPONENTS - MISCELLANEOUS PARTS FOR 50 Hz, 380/400/415 VOLTS CE AND EUROPEAN COMPLIANCE UNITS (ALL MODELS)				
ITEM	DESCRIPTION	FIGURE	QUANTITY	PART NUMBER
1	Enclosure and Door	9	1	371 01473 301
2	Contactor mounting rail	9	1	071 01290 303
3	Overload mounting rail	9	1	071 01290 304
4	Rail clamp	9	9	025 29189 000
6	Terminal Block Ground	9	4	025 31444 000
7	Terminal Block	9	4	025 31443 000
8	Terminal Block	9	8	025 31442 000
10	Terminal Block , Wire	9	1	024 27269 000
11	Marker, Terminal Block	9	1	025 31445 000
12	Marker, Terminal Block	9	2.6	025 31446 000
13	Label, Caution	9	1	035 09999 000
14*	Housing, Plug, 12 pin universal (PI)	10	1	025 21196 000
16	Nameplate (unstamped)	9	1	071 05481 000
17	Harness, Power Disconnect	10	1	571 05273 213
19	Lockwasher, Internal Tooth 3/8"	9	4	021 01155 000
20	Nut, Hex 3/8-16	9	4	021 00467 000
21	Screw, Tap Pan Head, #10-x 1/2"	9	23	021 13789 000
22	Label, Warning	9	1	035 11929 000
23	Screw, #10-24 x 1/2"	9	4	021 17596 000
24	Nut, 1/4-20	9	3	021 17269 000
25	Mounting Rail, Circuit Breaker	9	1	071 01473 303
26	Mounting Rail, Switch	9	1	071 01472 302
27	Label, Caution	9	1	035 05548 000
28	Washer, Flat #10	9	4	021 05164 000
31	Label, Identification Input	9	1	035 09316 000
32	Grounding Strap	9	1	225 32812 001
34	Harness, Loose	10	1	571 05273 211
35	Harness, Main	9	1	571 01473 221
36	Bus Bar	9	2	024 27270 000
37	Grounding Strap	9	1	225 32812 002
38	Conduit Plug 1/2"	9	4	025 31400 000
39	Nut, 1/2"	9	4	021 18404 000
40	Label, Connection	9	1	035 21972 000
41	Label, Elementary	9	1	035 21971 000
42	Conduit Plug 3/4"	9	2	025 31401 000
43	Nut, 3/4"	9	2	021 18405 000
44	Terminal Block	9	1	025 31476 000
45	End Cover	9	1	025 28490 000
NOT SHOWN	Housing, Plug Universal for Micropanel to Power Panel at Power Panel End	-	1	025-21192-000
	Male Pins for Above Housing	-	12	025-21192-000

* Requires 9 pins - YORK Part Number 025-19673-000

PANEL POWER

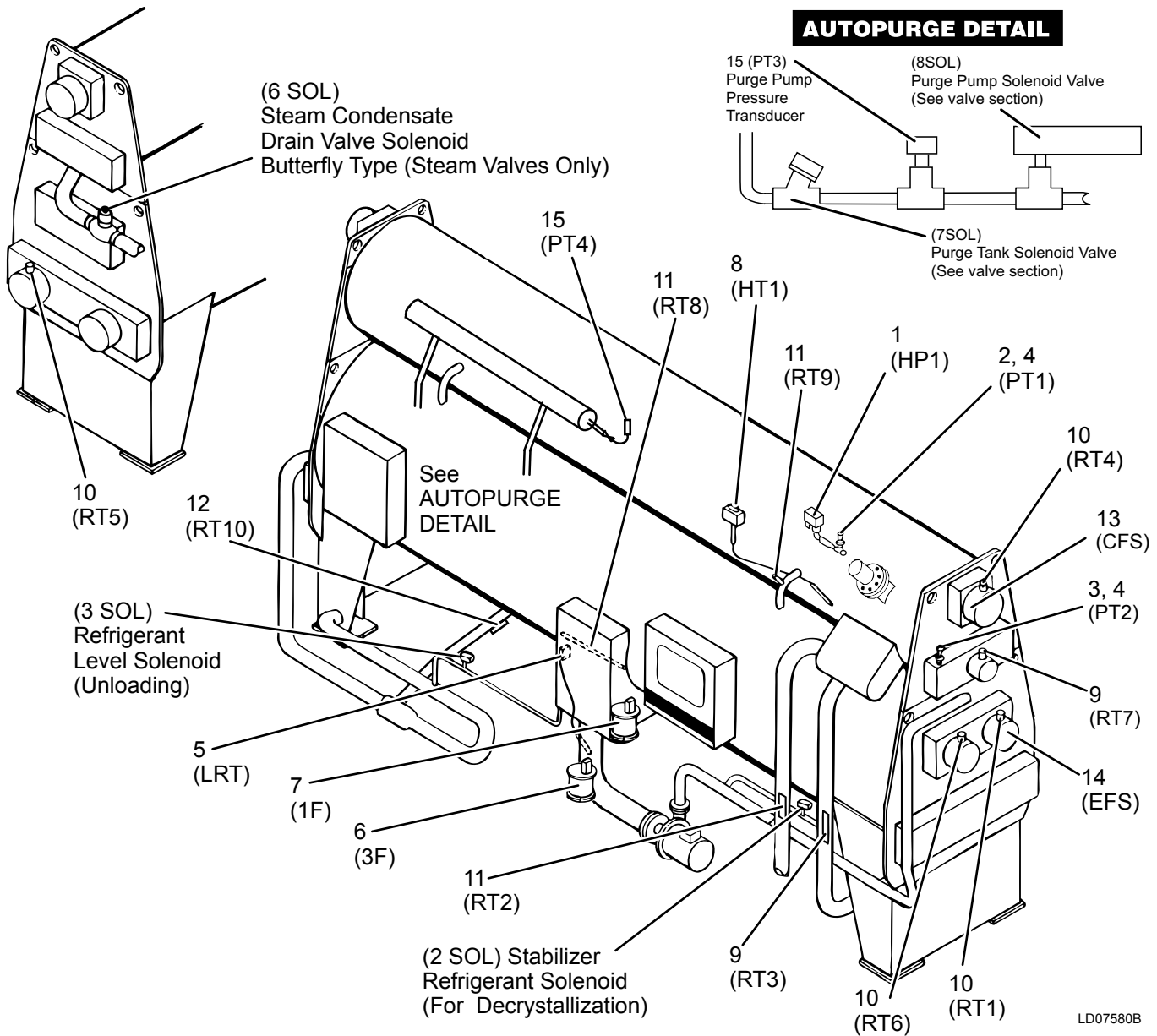
50 Hz, 380/400/415 VOLTS CE AND EUROPEAN COMPLIANCE UNITS (CONT'D)

TABLE 7 - VARIABLE PARTS FOR POWER PANEL - 50 HZ, 380/400/415 VOLTS CE AND EUROPEAN COMPLIANCE UNITS

POWER PANEL COMPONENTS - MISCELLANEOUS PARTS FOR 50 Hz, 380/400/415 VOLTS CE AND EUROPEAN COMPLIANCE UNITS (ALL MODELS)							
DESCRIPTION	ITEM	QTY.	MODELS (HOT WATER AND STEAM)				
			YIA-1A1 THRU YIA-3B2	YIA-3B3 THRU YIA-5C3	YIA-6C4 AND YIA-8D3	YIA-8E1	YIA-9E2 AND YIA-14F3
Transformer (1T)	30	1	025 31438 000	025 31438 000	025 31438 000	025 31438 000	025 31438 000
Contactor (1M) Solution Pump	103	1	024 25526 000	024 25526 000	024 25585 000	024 25585 000	024 25585 000
Contractor (2M) Refrigerant Pump	104	1	024 25526 000	024 25526 000	024 25526 000	024 25584 000	024 25585 000
Contractor (3M) Purge Pump	105	1	024 25521 000	024 25521 000	024 25521 000	024 25521 000	024 25521 000
Motor Protector (1OL) Solution Pump	106	1	024 27281 000	024 27268 000	024 27282 000	024 27282 000	024 27282 000
Motor Protector (2OL) Refrigerant Pump	107	1	024 27281 000	024 27281 000	024 27281 000	024 27268 000	024 27282 000
Motor Protector (3OL) Purge Pump	108	1	024 27278 000	024 27278 000	024 27278 000	024 27278 000	024 27278 000
SW. Disconnect (1SW)	33	1	024 30981 000	024 30981 000	024 30981 000	024 30981 000	024 30981 000
Circuit Breaker (2CB)	5	1	024 26946 000	024 26946 000	024 26946 000	024 26946 000	024 26946 000
Circuit Breaker (1CB) 6 amp, 2 Pole	18	1	024 26945 000	024 26945 000	024 26945 000	024 26945 000	024 26945 000

Refer to Figures 9 and 10

SYSTEM CONTROL COMPONENT LOCATIONS



1	(HP1) High Pressure Cutout Switch	10	(RT5) Temperature Sensor Entering Tower Water
2,4	(PT1) Generator Pressure Transducer	10	(RT6) Temperature Sensor Entering Chilled Water
3,4	(PT2) Steam Supply Pressure Transducer (Steam Units Only)	11	(RT9) Temperature (RTLC) Sensor Refrigerant Leaving the Condenser
5	(LRT) Low Refrigerant Temperature Cutout Switch	11	(RT8) Refrigerant Temperature Sensor
6	(3F) Refrigerant Pump Cut-Out Level Switch	11	(RT2) Temperature Sensor Auto Decrystallization
7	(1F) Refrigerant Level Switch	12	(RT10) Strong Soln Temperature Leaving Heat Exchanger
8	(HT1) High Temperature Cutout Switch	13	(CFS) Condenser Liquid Flow Switch
9	(RT3) Temperature Sensor Strong Solution	14	(EFS) Evaporator Liquid Flow Switch
9	(RT7) Temperature Sensor Steam / Hot Water Supply	15	(PT3) Purge Pump Pressure Transducer
10	(RT1) Temperature Sensor Leaving Chilled Water	15	(PT4) Purge Tank Pressure Transducer
10	(RT4) Temperature Sensor Leaving Tower Water		

FIGURE 11 - SYSTEM CONTROL COMPONENT LOCATIONS

SYSTEM CONTROL COMPONENTS (CONT'D)

TABLE 8 - SYSTEM CONTROL COMPONENTS

SYSTEM CONTROL COMPONENTS LOCATED THROUGHOUT UNIT (REFER TO FIGURE 11)			
ITEM	DESCRIPTION	QUANTITY	PART NUMBER
1	High Pressure Cutout switch (HP1)	1	024R00132 000
2	Generator Pressure Transducer (PT1)	1	025 29907 001
3	Steam Supply Pressure Transducer (PT2)	1	025 29148 001
4	Isolator, Vilter steady mount (for use with PT1 & PT2)	*	026 30229 000
5	Low Refrigerant Temp. Cutout switch (LRT)	1	225 30495 000
6	Refrigerant Pump Cutout Float switch (3F)	1	See Notes
7	Refrigerant Level Float switch (1F)	1	See Notes
	Optiview mounted PC board, 60 Hz, NEMA 1 applications only Δ		025 42093 000
	Electrode only		024 25572 000
	Wiring harness only		575 06503 451
8	High Temperature Cutout switch (HT1)	1	025 29995 000
9	Temperature Sensor (50K)	2	025 30457 000
10	Temperature Sensor (3K)	4	025 29964 000
11	Temperature Sensor (3K) with threaded connector	2	025 28935 000
12	Temperature Sensor (50K) (RT3), (RT10) Mod "D" units	2	025 29924 000
13	Condenser water flow switch (CFS)	1	025 43553 000
14	Evaporator water flow switch (EFS)	1	025 43553 000
	Flow switch connector	2	025 41574 000
	Suppressor	6	031 00808 000
	Varistor, Metal Oxide (for control valve)	1	031 01349 000
	Cable, 2 conductor gray cable with foil shield and drain wire 20 AWG - used for thermistors	**	025 28701 002
	Cable, 3 conductor gray cable with foil shield and drain wire 20 AWG - used for transducers	**	025 28701 003
	Solenoid Valve DIN plug w/suppressor	2	025 37876 000
	Solenoid Valve DIN plug w/o suppressor	2	025 34047 000
15	Purge transducer (PT3 & PT4) for auto purge	2	025 29907 002

NOTES:

- * Quantity 2 for Steam units, quantity 1 for hot water units.
- ** Order quantity by feet.
- Δ For 50 Hz applications built after January 2009
Enclosure box w/PC module 025 31333 001
- Δ For 60 Hz applications with externally mount modules
Enclosure box w/PC module 025 29922 001

VALVES

TABLE 9 - VALVES

TYPE	DESCRIPTION	PART NUMBER	GRAPHIC
Butterfly Lug Type	3 inch 4 inch 6 inch	022 10035 000 022 10036 000 022 10038 000	 00402VIP
Diaphragm	3/4" Complete (Style B) SS Socket Weld Valve Replacement Diaphragm for above valve Replacement Bonnet Assembly for above valve 1/2" Complete (NPTI connections) Valve	022 02457 000 022 10635 000 022 10636 000 022 02046 000	 28731A
2SOL Solenoid	Stabilizer Refrigerant Solenoid 1/2" (models 1A1-6C4) Replacement Solenoid Coil for above valve Spare parts kit for above valve Stabilizer Refrigerant Solenoid 3/4" (models 7D1-14F3) Replacement Solenoid Coil for above valve Spare parts kit for above valve	025 17885 000 025 18581 000 025 18583 000 025 17886 000 025 18582 000 025 18584 000	 29472A
3SOL Solenoid	Refrigerant Level Solenoid 1/2" (models 1A1-6C4) Replacement Solenoid Coil for above valve Spare parts kit for above valve Refrigerant Level Solenoid 3/4" (models 7D1-14F3) Replacement Solenoid Coil for above valve Spare parts kit for above valve	025 17885 000 025 18581 000 025 18583 000 025 17886 000 025 18582 000 025 18584 000	 29472A
7SOL Solenoid	1/2 inch NPTI purge tank (7SOL) valve Solenoid valve DIN plug W/suppressor Solenoid valve DIN plug W/O suppressor	022 09563 000 025 37876 000 025 34047 000	 28732A
Electrically Actuated Purge Ball Valve	1/2" Siemens Actuator W/ Swagelok Ball Valve 1/2" Swagelok Ball Valve Only Seal Kit for above Ball Valve Replacement Actuator Only for above Ball Valve	022 10042 000 022 10059 000 022 10061 000 022 10060 000	 00401VIP

VALVES (CONT'D)

TABLE 9 (CONT'D) - VALVES

TYPE	DESCRIPTION	PART NUMBER	GRAPHIC
50 HZ 6SOL Solenoid	Steam Condensate Drain Solenoid 2" (models 1A1-4B4) NEMA 4 & 7, group C&D version of above solenoid Steam Condensate Drain Solenoid 3" (models 4C1-14F3) NEMA 4 & 7, group C&D version of above solenoid NOTE: For the 6SOL - Steam condensate drain solenoid valve, no replacement solenoid coils or spare kits available	025 30458 000 025R00210 000 025 30459 000 025R00217 000	 00100VIP
60 HZ 6SOL Solenoid	Steam Condensate Drain Solenoid 2" (models 1A -4B4) NEMA 4 & 7, group C & D version of above solenoid Steam Condensate Drain Solenoid 3" (models 4C1-14F3) NEMA 4 & 7, group C & D version of above solenoid NOTE: For the 6SOL - Steam condensate drain solenoid valve, no replacement solenoid coils or spare kits available.	025 30461 000 025R00212 000 025 30462 000 025R00193 000	
Check	1/2 Inch Flapper (Swing type) (all units built after 1/1/99 will incorporate this valve)	022 09517 000	 28733A
Ball	1/2 Inch NPTI threaded connections (manometer isolation hand valve)	022 02558 000 (alternate P/N) 022 08885 005	 29469A
Sample	1/2 Inch Spindle Type O-Ring Repair Kit (2 outer and 2 inner O-rings)	022 08869 001 028 12271 001	 00405VIP
Spindle	1/2 Inch Spindle Type Spindle Repair Kit (2 inner & 1 Outer O-ring) 1 Inch Spindle Type Spindle Repair Kit (2 inner & 1 Outer O-ring)	022 08869 002 028 12271 002 022 08869 003 028 12271 003	 27089A
Globe	1/2 inch with cap 1 inch with cap	022R00181 000 022R00180 000	 00401B

VALVES (CONT'D)

TABLE 10 - 2 WAY ANALOG STEAM VALVES

TYPE	SIZE (INCHES)	DESIGN WORKING PRESSURE (PSIG)	YORK PART NUMBER COMPLETE VALVE	REPLACEMENT ACTUATOR PART NUMBER	FALL CLOSED DESIGN	GRAPHIC
Globe	2 1/2	125	022R00142 000	022R00158 000	Yes	 00404VIP
	3	125	022R00145 000			
	4	125	022R00148 000			
	6	125	022R00151 000			
Butterfly	4	150	022R00154 000	022R00159 000	No	 LD12358
	6	150	022R00155 000	022R00160 000		
	8	150	022R00156 000			
	Actuator Positioner Board for Butterfly Valves			031R00011 000	-	

TABLE 11 - 2 AND 3 WAY ANALOG STEAM VALVES

TYPE	SIZE (INCHES)	DESIGN WORKING PRESSURE (PSIG)	YORK PART NUMBER COMPLETE VALVE	REPLACEMENT ACTUATOR PART NUMBER	FALL CLOSED DESIGN	GRAPHIC
2-Way Globe	1 1/2	125	022R00136 000	022R00158 000	Yes	 00404VIP
		300	022R00138 000			
	2	125	022R00139 000			
		300	022R00141 000			
	2 1/2	125	022R00142 000			
		300	022R00144 000			
	3	125	022R00145 000			
		300	022R00147 000			
	4	125	022R00148 000			
		300	022R00150 000			
	6	125	022R00151 000			
		300	022R00153 000			
3-Way Globe	1 1/2	125	022R00118 000	022R00162 000	No	 00404VIP
		300	022R00120 000			
	2	125	022R00121 000			
		300	022R00123 000			
	2 1/2	125	022R00124 000			
		300	022R00126 000			
	3	125	022R00127 000			
		300	022R00129 000			
	4	125	022R00130 000			
		300	022R00132 000			
	6	125	022R00133 000			
		300	022R00135 000			

OEM PUMPS

TABLE 12 - PUMPS, COMPLETE ASSEMBLIES (INCLUDES VOLUTE, MOTOR AND IMPELLER)

UNIT MODEL	UNIT VOLTAGE 208/230/460-3-60 HZ		UNIT VOLTAGE 575-3-60 HZ		UNIT VOLTAGE 380/400/415-3-50 HZ	
	IN / OUT	PART NUMBER	IN / OUT	PART NUMBER	IN / OUT	PART NUMBER
SOLUTION PUMPS						
1A1	4 / 3	026 R00215 001	4 / 3	026 R00218 001	4 / 3	026 R00221 001
1A2	4 / 3	026 R00215 001	4 / 3	026 R00218 001	4 / 3	026 R00221 001
2A3	4 / 3	026 R00215 002	4 / 3	026 R00218 002	4 / 3	026 R00221 002
2A4	4 / 3	026 R00215 003	4 / 3	026 R00218 003	4 / 3	026 R00221 003
2B1	4 / 3	026 R00215 004	4 / 3	026 R00218 004	4 / 3	026 R00221 004
3B2	4 / 3	026 R00215 005	4 / 3	026 R00218 005	4 / 3	026 R00222 001
3B3	4 / 3	026 R00215 006	4 / 3	026 R00218 006	4 / 3	026 R00222 002
4B4	4 / 3	026 R00215 007	4 / 3	026 R00218 007	4 / 3	026 R00222 003
4C1	4 / 3	026 R00215 007	4 / 3	026 R00218 007	4 / 3	026 R00222 003
5C2	4 / 3	026 R00216 001	4 / 3	026 R00219 001	4 / 3	026 R00222 004
5C3	4 / 3	026 R00216 002	4 / 3	026 R00219 002	4 / 3	026 R00222 005
6C4	4 / 3	026 R00216 002	4 / 3	026 R00219 002	6 / 4	026 R00223 001
7D1	4 / 3	026 R00216 003	4 / 3	026 R00219 003	6 / 4	026 R00223 002
7D2	6 / 4	026 R00217 001	6 / 4	026 R00220 001	6 / 4	026 R00223 003
8D3	6 / 4	026 R00217 002	6 / 4	026 R00220 002	6 / 4	026 R00223 001
8E1	6 / 4	026 R00217 003	6 / 4	026 R00220 003	6 / 4	026 R00223 004
9E2	6 / 4	026 R00217 004	6 / 4	026 R00220 004	6 / 4	026 R00223 001
10E3	6 / 4	026 R00217 005	6 / 4	026 R00220 005	6 / 4	026 R00223 005
12F1	6 / 4	026 R00217 006	6 / 4	026 R00220 006	6 / 4	026 R00223 010
13F2	6 / 4	026 R00217 007	6 / 4	026 R00220 007	6 / 4	026 R00223 010
14F3	6 / 4	026 R00217 008	6 / 4	026 R00220 008	6 / 4	026 R00223 011
REFRIGERANT PUMPS						
1A1	4 / 3	026 R00215 008	4 / 3	026 R00218 008	4 / 3	026 R00221 005
1A2	4 / 3	026 R00215 008	4 / 3	026 R00218 008	4 / 3	026 R00221 005
2A3	4 / 3	026 R00215 008	4 / 3	026 R00218 008	4 / 3	026 R00221 005
2A4	4 / 3	026 R00215 008	4 / 3	026 R00218 008	4 / 3	026 R00221 005
2B1	4 / 3	026 R00215 008	4 / 3	026 R00218 008	4 / 3	026 R00221 005
3B2	4 / 3	026 R00215 008	4 / 3	026 R00218 008	4 / 3	026 R00221 005
3B3	4 / 3	026 R00215 009	4 / 3	026 R00218 009	4 / 3	026 R00221 006
4B4	4 / 3	026 R00215 009	4 / 3	026 R00218 009	4 / 3	026 R00221 006
4C1	4 / 3	026 R00215 009	4 / 3	026 R00218 009	4 / 3	026 R00221 006
5C2	4 / 3	026 R00215 008	4 / 3	026 R00218 008	4 / 3	026 R00221 005
5C3	4 / 3	026 R00215 008	4 / 3	026 R00218 008	4 / 3	026 R00221 005
6C4	4 / 3	026 R00215 010	4 / 3	026 R00218 010	4 / 3	026 R00221 006
7D1	4 / 3	026 R00215 011	4 / 3	026 R00218 011	4 / 3	026 R00222 006
7D2	4 / 3	026 R00216 004	4 / 3	026 R00219 004	4 / 3	026 R00222 006
8D3	4 / 3	026 R00216 005	4 / 3	026 R00219 005	4 / 3	026 R00222 006
8E1	4 / 3	026 R00216 005	4 / 3	026 R00219 005	4 / 3	026 R00222 007
9E2	4 / 3	026 R00216 006	4 / 3	026 R00219 006	6 / 4	026 R00223 006
10E3	6 / 4	026 R00217 009	6 / 4	026 R00220 009	6 / 4	026 R00223 007
12F1	6 / 4	026 R00217 009	6 / 4	026 R00220 009	6 / 4	026 R00223 008
13F2	6 / 4	025 R00217 009	6 / 4	026 R00220 009	6 / 4	026 R00223 008
14F3	6 / 4	026 R00217 010	6 / 4	026 R00220 010	6 / 4	026 R00223 009

OEM PUMPS (CONT'D)

TABLE 13 - COMPLETE YORK MODEL 1402 VACUUM PUMP (5.6 CFM)

UNIT MODEL	VOLTAGE	APPLICATION	YORK PART NUMBER
ALL YIA UNITS	208/230/460-3-60	STANDARD	026R00249 000
	575-3-60	STANDARD	026R00250 000
	380/400/415-3-50	STANDARD	026 32377 000 or 026R00252 000
	208-230/460-3-60	TEFC	026 32842 000

TABLE 14 - PARTS INCLUDED WITH THE YORK PUMP

ITEM	COMMENTS
PUMP OIL, 1 QUART	THREE (3) QUARTS SHIPPED WITH PUMP
OWNER'S MANUAL	MODEL 1402 ONLY
ADAPTOR FITTING	FOR DISCHARGE PORT
DRIVE BELT	INSTALLED ON PUMP

TABLE 15 - YORK VACUUM PUMP GASKET AND SEAL KIT (FOR YORK VACUUM PUMP MODEL 1402 ONLY)

KIT CONTENTS - YORK PART NUMBER 026-32388-000	
DESCRIPTION	QUANTITY
SEAL KIT	1
PUMP OIL	1 GALLON
GASKETS	1 EACH
ALUMINUM WASHER	1
STEEL CASE OIL SEAL	1
O-RING TENSION WASHER	2
RUBBER WASHER	2
SEAL COVER GASKET	1

OEM PUMPS (CONT'D)

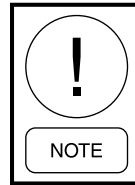
TABLE 16 - MISCELLANEOUS VACUUM PUMP PARTS

PUMP MODEL NUMBER 1402			
V-Belt	028 14424 000	1405A	For Use with Part Numbers 026 32305 000, 026R00249 000, and 026 32842 000
V-Belt	028 14425 000	41-0713	For Use with Part Number 026 32377 000
Motor Pulley		41-0668	For Use with Part Number 026 32305 000 and 026R00249 000
Pump Pulley		41-2074	For Use with Part Number 026 32305 000 and 026R00249 000
Belt-Guard Replacement Kit		1471G-01	For Use with Part Number 026 32305 000 and 026R00249 000
Base		61-8717	For Use with Part Number 026 32305 000 and 026R00249 000
Motor		61-8715	For Use with Part Number 026 33637 000
Motor		41-1904	For Use with Part Number 026 32305 000
Pump Oil	011 00524 004	1407K-15	1 Gallon of Oil
Owner's Manual		67-0636	Models 1400 and 1402
Discharge Port Adaptor Fitting		61-8492A	1" - 20 Male Machine Threads x 3/4"-NPTE x 2-1/4" Long
Discharge Pipe Dust Cap		41-0612	1" - 20 Machine Threads

OEM PUMPS (CONT'D)

PUMP REPAIR KITS

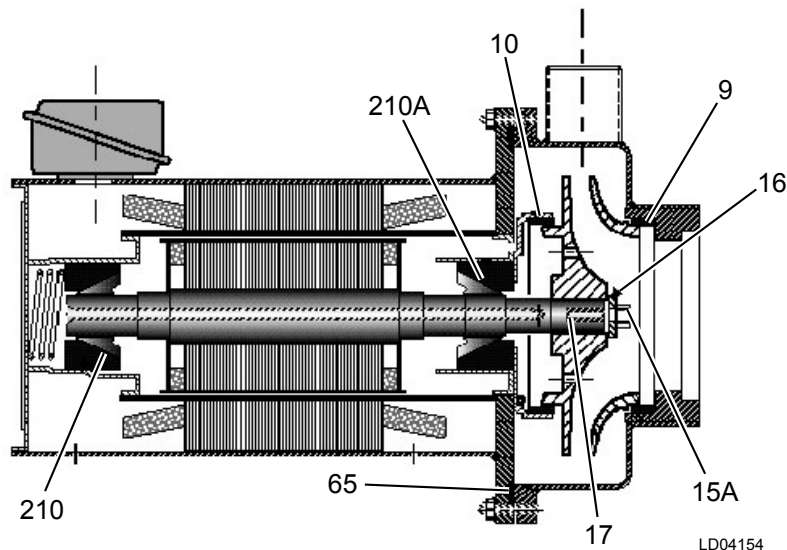
Parts for repairing YORK internally-cooled pumps are available through the Baltimore Parts Distribution Center only in a kit format. The contents of each kit is listed below, and are intended to handle a majority of pump failures. Select the kit which will best handle the pump failure.



These kits are not compatible with and cannot be used on old style pump repairs.

TABLE 17 - NEW STYLE PUMP REPAIR KIT CONTENTS

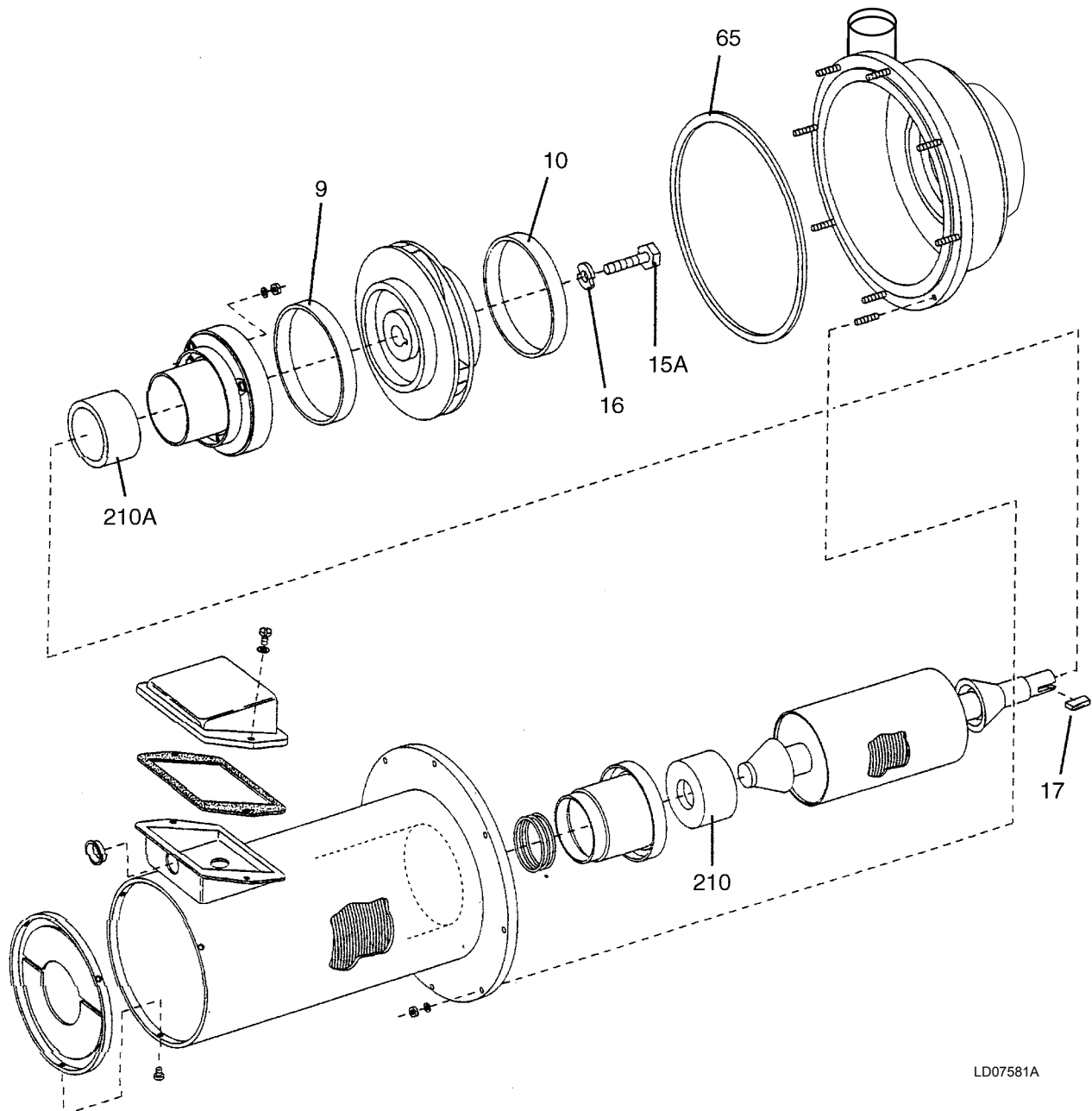
PUMP REPAIR KIT		MOTOR BEARING REPAIR KIT		NEW MOTOR WITH PUMP REPAIR KIT		CASING GASKET	
ITEM	PART	ITEM	PART	ITEM	PART	ITEM	PART
9	Casing Wear Ring	9	Casing Wear Ring	9	Casing Wear Ring	65	Casing Gasket
10	Motor Side Wearing Ring	10	Motor Side Wearing Ring	10	Motor Side Wearing Ring		
15A	Impeller Locking Screw	15A	Impeller Locking Screw	15A	Impeller Locking Screw		
16	Impeller Locking Washer	16	Impeller Locking Washer	16	Impeller Locking Washer		
17	Feather Key Impeller	17	Feather Key Impeller	17	Feather Key Impeller		
65	Casing Gasket Kit	65	Casing Gasket Kit	65	Casing Gasket Kit		
		210A	Bearing	201	Multi Voltage Motor - Includes Items 210 & 210A		
		210	Bearing (Front End)				



LD04154

FIGURE 12 - PUMP SYSTEM CONTROL COMPONENT LOCATIONS

OEM PUMPS (CONT'D)



LD07581A

FIGURE 13 - OEM PUMPS - SINGLE-ENDED EXPLODED VIEW

NEW STYLE PUMP REPAIR KITS

TABLE 18 - NEW STYLE PUMP REPAIR KITS FOR 208/230/460-3-60 HZ UNITS

UNIT MODEL/ TYPE PUMP	PUMP REPAIR KIT	MOTOR BEARING REPAIR KIT	NEW MOTOR WITH PUMP REPAIR KIT	CASING GASKET
1A1 - SOL.	026 35048-000	026 35050 000	026 35052 000	028 13827 000
1A1 - REF.	026 35048 000	026 35050 000	026 35052 000	028 13827 000
1A2 - SOL.	026 35048 000	026 35050 000	026 35052 000	028 13827 000
1A2 - REF.	026 35048 000	026 35050 000	026 35052 000	028 13827 000
2A3 - SOL.	026 35048 000	026 35050 000	026 35052 000	028 13827 000
2A3 - REF.	026 35048 000	026 35050 000	026 35052 000	028 13827 000
2A4 - SOL.	026 35048 000	026 35050 000	026 35052 000	028 13827 000
2A4 - REF.	026 35048 000	026 35050 000	026 35052 000	028 13827 000
2B1 - SOL.	026 35048 000	026 35050 000	026 35052 000	028 13827 000
2B1 - REF.	026 35048 000	026 35050 000	026 35052 000	028 13827 000
3B2 - SOL.	026 35049 000	026 35051 000	026 35054 000	028 13827 000
3B2 - REF.	026 35048 000	026 35050 000	026 35052 000	028 13827 000
3B3 - SOL.	026 35049 000	026 35051 000	026 35054 000	028 13827 000
3B3 - REF.	026 35048 000	026 35050 000	026 35052 000	028 13827 000
4B4 - SOL.	026 35049 000	026 35051 000	026 35054 000	028 13827 000
4B4 - REF.	026 35048 000	026 35050 000	026 35052 000	028 13827 000
4C1 - SOL.	026 35049 000	026 35051 000	026 35054 000	028 13827 000
4C1 - REF.	026 35048 000	026 35050 000	026 35052 000	028 13827 000
5C2 - SOL.	026 35049 000	026 35051 000	026 35054 000	028 13827 000
5C2 - REF.	026 35048 000	026 35050 000	026 35052 000	028 13827 000
5C3 - SOL.	026 35049 000	026 35051 000	026 35054 000	028 13827 000
5C3 - REF.	026 35048 000	026 35050 000	026 35052 000	028 13827 000
6C4 - SOL.	026 35049 000	026 35051 000	026 35054 000	028 13827 000
6C4 - REF.	026 35048 000	026 35050 000	026 35052 000	028 13827 000
7D1 - SOL.	026 35049 000	026 35051 000	026 35054 000	028 13827 000
7D1 - REF.	026 35048 000	026 35050 000	026 35052 000	028 13827 000
7D2 - SOL.	026 35058 000	026 35059 000	026 35060 000	028 13828 000
7D2 - REF.	026 35048 000	026 35050 000	026 35052 000	028 13827 000
8D3 - SOL.	026 35058 000	026 35059 000	026 35060 000	028 13828 000
8D3 - REF.	026 35048 000	026 35050 000	026 35052 000	028 13827 000
8E1 - SOL.	026 35058 000	026 35059 000	026 35060 000	028 13828 000
8E1 - REF.	026 35048 000	026 35050 000	026 35052 000	028 13827 000
9E2 - SOL.	026 35058 000	026 35059 000	026 35061 000	028 13828 000
9E2 - REF.	026 35049 000	026 35051 000	026 35054 000	028 13827 000
10E3 - SOL.	026 35058 000	026 35059 000	026 35061 000	028 13828 000
10E3 - REF.	026 35058 000	026 35059 000	026 35060 000	028 13828 000
12F1 - SOL.	026 35058 000	026 35059 000	026 35060 000	028 13828 000
12F1 - REF.	026 35058 000	026 35059 000	026 35060 000	028 13828 000
13F2 - SOL.	026 35058 000	026 35059 000	026 35061 000	028 13828 000
13F2 - REF.	026 35058 000	026 35059 000	026 35060 000	028 13828 000
14F3 - SOL.	026 35058 000	026 35059 000	026 35061 000	028 13828 000
14F3 - REF.	026 35058 000	026 35059 000	026 35060 000	028 13828 000

See Figure 12 for Repair Kit Contents

TABLE 19 - NEW STYLE PUMP REPAIR KITS FOR 575-3-60 HZ UNITS

UNIT MODEL/ TYPE PUMP	PUMP REPAIR KIT	MOTOR BEARING REPAIR KIT	NEW MOTOR WITH PUMP REPAIR KIT	CASING GASKET
1A1 - SOL.	026 35048 000	026 35050 000	026 35056 000	028 13827 000
1A1 - REF.	026 35048 000	026 35050 000	026 35056 000	028 13827 000
1A2 - SOL.	026 35048 000	026 35050 000	026 35056 000	028 13827 000
1A2 - REF.	026 35048 000	026 35050 000	026 35056 000	028 13827 000
2A3 - SOL.	026 35048 000	026 35050 000	026 35056 000	028 13827 000
2A3 - REF.	026 35048 000	026 35050 000	026 35056 000	028 13827 000
2A4 - SOL.	026 35048 000	026 35050 000	026 35056 000	028 13827 000
2A4 - REF.	026 35048 000	026 35050 000	026 35056 000	028 13827 000
2B1 - SOL.	026 35048 000	026 35050 000	026 35056 000	028 13827 000
2B1 - REF.	026 35048 000	026 35050 000	026 35056 000	028 13827 000
3B2 - SOL.	026 35049 000	026 35051 000	026 35057 000	028 13827 000
3B2 - REF.	026 35048 000	026 35050 000	026 35056 000	028 13827 000
3B3 - SOL.	026 35049 000	026 35051 000	026 35057 000	028 13827 000
3B3 - REF.	026 35048 000	026 35050 000	026 35056 000	028 13827 000
4B4 - SOL.	026 35049 000	026 35051 000	026 35057 000	028 13827 000
4B4 - REF.	026 35048 000	026 35050 000	026 35056 000	028 13827 000
4C1 - SOL.	026 35049 000	026 35051 000	026 35057 000	028 13827 000
4C1 - REF.	026 35048 000	026 35050 000	026 35056 000	028 13827 000
5C2 - SOL.	026 35049 000	026 35051 000	026 35057 000	028 13827 000
5C2 - REF.	026 35048 000	026 35050 000	026 35056 000	028 13827 000
5C3 - SOL.	026 35049 000	026 35051 000	026 35057 000	028 13827 000
5C3 - REF.	026 35048 000	026 35050 000	026 35056 000	028 13827 000
6C4 - SOL.	026 35049 000	026 35051 000	026 35057 000	028 13827 000
6C4 - REF.	026 35048 000	026 35050 000	026 35056 000	028 13827 000
7D1 - SOL.	026 35049 000	026 35051 000	026 35057 000	028 13827 000
7D1 - REF.	026 35048 000	026 35050 000	026 35056 000	028 13827 000
7D2 - SOL.	026 35058 000	026 35059 000	026 35062 000	028 13828 000
7D2 - REF.	026 35048 000	026 35050 000	026 35056 000	028 13827 000
8D3 - SOL.	026 35058 000	026 35059 000	026 35062 000	028 13828 000
8D3 - REF.	026 35048 000	026 35050 000	026 35056 000	028 13827 000
8E1 - SOL.	026 35058 000	026 35059 000	026 35062 000	028 13828 000
8E1 - REF.	026 35048 000	026 35050 000	026 35056 000	028 13827 000
9E2 - SOL.	026 35058 000	026 35059 000	026 35064 000	028 13828 000
9E2 - REF.	026 35049 000	026 35051 000	026 35057 000	028 13827 000
10E3 - SOL.	026 35058 000	026 35059 000	026 35064 000	028 13828 000
10E3 - REF.	026 35058 000	026 35059 000	026 35062 000	028 13828 000
12F1 - SOL.	026 35058 000	026 35059 000	026 35062 000	028 13828 000
12F1 - REF.	026 35058 000	026 35059 000	026 35062 000	028 13828 000
13F2 - SOL.	026 35058 000	026 35059 000	026 35064 000	028 13828 000
13F2 - REF.	026 35058 000	026 35059 000	026 35062 000	028 13828 000
14F3 - SOL.	026 35058 000	026 35059 000	026 35064 000	028 13828 000
14F3 - REF.	026 35058 000	026 35059 000	026 35062 000	028 13828 000

See Figure 12 for Repair Kit Contents

NEW STYLE PUMP REPAIR KITS (CONT'D)

TABLE 20 - NEW STYLE PUMP REPAIR KITS FOR 380/400/415-3-50 HZ UNITS

UNIT MODEL/ TYPE PUMP	PUMP REPAIR KIT	MOTOR BEARING REPAIR KIT	NEW MOTOR WITH PUMP REPAIR KIT	CASING GASKET
1A1 - SOL.	026 35048 000	026 35050 000	026 35053 000	028 13827 000
1A1 - REF.	026 35048 000	026 35050 000	026 35053 000	028 13827 000
1A2 - SOL.	026 35048 000	026 35050 000	026 35053 000	028 13827 000
1A2 - REF.	026 35048 000	026 35050 000	026 35053 000	028 13827 000
2A3 - SOL.	026 35048 000	026 35050 000	026 35053 000	028 13827 000
2A3 - REF.	026 35048 000	026 35050 000	026 35053 000	028 13827 000
2A4 - SOL.	026 35048 000	026 35050 000	026 35053 000	028 13827 000
2A4 - REF.	026 35048 000	026 35050 000	026 35053 000	028 13827 000
2B1 - SOL.	026 35048 000	026 35050 000	026 35053 000	028 13827 000
2B1 - REF.	026 35048 000	026 35050 000	026 35053 000	028 13827 000
3B2 - SOL.	026 35048 000	026 35050 000	026 35053 000	028 13827 000
3B2 - REF.	026 35048 000	026 35050 000	026 35053 000	028 13827 000
3B3 - SOL.	026 35049 000	026 35051 000	026 35055 000	028 13827 000
3B3 - REF.	026 35048 000	026 35050 000	026 35053 000	028 13827 000
4B4 - SOL.	026 35049 000	026 35051 000	026 35055 000	028 13827 000
4B4 - REF.	026 35048 000	026 35050 000	026 35053 000	028 13827 000
4C1 - SOL.	026 35049 000	026 35051 000	026 35055 000	028 13827 000
4C1 - REF.	026 35048 000	026 35050 000	026 35053 000	028 13827 000
5C2 - SOL.	026 35049 000	026 35051 000	026 35055 000	028 13827 000
5C2 - REF.	026 35048 000	026 35050 000	026 35053 000	028 13827 000
5C3 - SOL.	026 35049 000	026 35051 000	026 35055 000	028 13827 000
5C3 - REF.	026 35048 000	026 35050 000	026 35053 000	028 13827 000
6C4 - SOL.	026 35058 000	026 35059 000	026 35063 000	028 13828 000
6C4 - REF.	026 35048 000	026 35050 000	026 35053 000	028 13827 000
7D1 - SOL.	026 35058 000	026 35059 000	026 35063 000	028 13828 000
7D1 - REF.	026 35048 000	026 35050 000	026 35053 000	028 13827 000
7D2 - SOL.	026 35058 000	026 35059 000	026 35063 000	028 13828 000
7D2 - REF.	026 35048 000	026 35050 000	026 35053 000	028 13827 000
8D3 - SOL.	026 35058 000	026 35059 000	026 35063 000	028 13828 000
8D3 - REF.	026 35048 000	026 35050 000	026 35053 000	028 13827 000
8E1 - SOL.	026 35058 000	026 35059 000	026 35063 000	028 13828 000
8E1 - REF.	026 35049 000	026 35051 000	026 35055 000	028 13827 000
9E2 - SOL.	026 35058 000	026 35059 000	026 35063 000	028 13828 000
9E2 - REF.	026 35058 000	026 35059 000	026 35063 000	028 13828 000
10E3 - SOL.	026 35058 000	026 35059 000	026 35063 000	028 13828 000
10E3 - REF.	026 35058 000	026 35059 000	026 35063 000	028 13828 000
12F1 - SOL.	026 35058 000	026 35059 000	026 35063 000	028 13828 000
12F1 - REF.	026 35058 000	026 35059 000	026 35063 000	028 13828 000
13F2 - SOL.	026 35058 000	026 35059 000	026 35063 000	028 13828 000
13F2 - REF.	026 35058 000	026 35059 000	026 35063 000	028 13828 000
14F3 - SOL.	026 35058 000	026 35059 000	026 35063 000	028 13828 000
14F3 - REF.	026 35058 000	026 35059 000	026 35063 000	028 13828 000

See Figure 12 for Repair Kit Contents

RUPTURE DISKS

TABLE 21 - RUPTURE DISKS

YIA MODEL NUMBER	RUPTURE DISK SIZE	RUPTURE DISK* PART NUMBER	RUPTURE DISK HOLDER PART NUMBER
1A1	1-1/2"	026 37940 000 Teflon Gaskets 028R00987 000	026 37941 000
1A2	1-1/2"		
2A3	1-1/2"		
2A4	1-1/2"		
2B1	1-1/2"		
3B2	1-1/2"		
3B3	1-1/2"		
4B4	1-1/2"		
4C1	2"		
5C2	2"	026 37942 000 Teflon Gaskets 028R00988 000	026 37943 000
5C3	2"		
6C4	2"		
7D1	2"		
7D2	2"		
8D3	2"		
8E1	2"		
9E2	2"		
10E3	2"		
12F1	3"	026 37944 000 Teflon Gaskets 028R00989 000	026 37945 000
13F2	3"		
14F3	3"		
All Hot Water	4"	026 10433 000**	N/A

NOTES:

*Rupture Disks are metallic and can be used on both hot water and steam units.

**Rupture Disk is carbon and includes two neoprene gaskets. Gaskets cannot be purchased separately.

MISCELLANEOUS COMPONENTS

TABLE 22 - MISCELLANEOUS COMPONENTS

ITEM DESCRIPTION	PART NUMBER
Sight Glass, absorber, 4" (See. Fig. 13)	026 09608 000
Sight Plug, evaporator end sheet, 2" (2 per unit)	026 18004 000
High accuracy absolute pressure gauge, -30 MBAR S.ST Enclosure	026R00287 000
Absolute pressure gauge, dial type (non-mercury), gauge range 0 to 40 mm	026 45534 000
Gauge, compound, 4" dial type range -760mm Hg. Abs. to 15 psig	026 34443 000
Gauge, compound, 3-1/2" dial type range 30" Hg Abs. to 300 psig	026 03952 000
Siphon (used in conjunction with above compound gauge)	026 28384 000
Auto Purge Eductor	375R05120 000
Control, differential pressure switch	025 30919 000
Purge drum assembly (fits all models)	375R01912 000
Tubing, vacuum pump suction connection, clear wire reinforced, 3/4" ID x 1.024 OD	028 13535 000
Tubing, manometer connection and vacuum sample flask, clear, 1/4" ID x 5/8" OD	028 12514 000
Tubing, bubble leak check, clear, 1/4" ID x 3/8" OD (not for vacuum purposes)	028 10605 000
Hose Clamp, SST, range 1-1/16" to 2" dia.	021 12930 000
Tee, 1/2 inch NPTI threaded, carbon steel (for auxiliary purge connection at manometer)	023 11329 000
Isolation Pads for models 1A1 thru 2A4	366 29813 000
Isolation Pads for models 2B1 thru 4B4	367 67606 000
Isolation Pads for models 4C1 thru 6C4	367 67607 000
Isolation Pads for models 7D1 thru 8D3	367 67608 000
Isolation Pads for models 8E1 thru 10E3	367 78184 000
Isolation Pads for models 12F1 thru 14F3	366 06736 000
Solenoid valve, 1/2 NPTI, explosion proof Class 1, Div. 1, Group B	025R00117 000
Solenoid Valve, 3/4 NPTI, explosion proof, Class 1, Div. 1, Group B	025R00118 000
Solenoid Valve, 3/4 NPTI, explosion proof, normally closed, Class 1, Div. 1, Group B	025R00119 000
Thermowell, for entering steam/hot water supply temp.	026R00228 000
Thermowell, for absorber, evaporator, & condenser nozzles	026 32328 000
Spindle Valve Adapter	922 08869 001
3F Refrigerant Pump Cutout Switch Enclosure (old style)	375R00229 000
Coupling, half-pipe, 1/2", 3000#	068 00083 000
Oil Trap Assembly	366 20514 000
Bushing, Pipe, 1-1/4"-11-1/2 thd. x 3/8"-11 thd.	023 23398 000
General Head Impingement Baffle Plate, Family A	066R11313 001
General Head Impingement Baffle Plate, Family B	066R11313 001
General Head Impingement Baffle Plate, Family C	066R11313 002
General Head Impingement Baffle Plate, Family D	066R11313 003
General Head Impingement Baffle Plate, Family E	066R11313 004
General Head Impingement Baffle Plate, Family F	066R11313 005

NOTE: Flow switch can be used for either evaporator or condenser water loops.

MISCELLANEOUS COMPONENTS (CONT'D)

TABLE 23 - MISCELLANEOUS COMPONENTS - UNINTERRUPTIBLE POWER SUPPLY

ITEM DESCRIPTION	PART NUMBER	
	60 HZ	50HZ
UPS Power Supply	371 02756 311	371 02756 311
Harness (UPS to Micro panel)	575 21570 221	575 21771 221
Harness (inside UPS)	571 02756 201	571 02756 201
Internal Battery Back Up	024 20211 000	024 20211 000
Socket	024 31771 000	024 31771 000
Relay	024 24325 000	024 24325 000

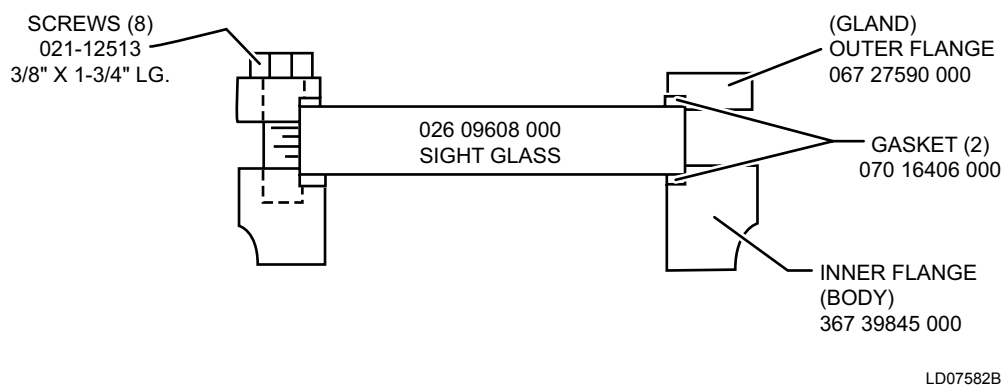


FIGURE 14 - ASSEMBLY OF 4" ABSORBER SIGHT GLASS

GENERATOR TUBES

TABLE 24 - GENERATOR TUBES FOR MODIFICATION LEVEL "B" AND LATER CHILLERS

UNIT MODEL	LENGTH (INCHES)	NUMBER OF SKIPS	QUANTITY	GENERATOR CODE AND DESIGN WORKING PRESSURE		
				NON-CODE / AMSE/ISPESL	TUV	TUV
				150 & 300 DWP	10 BAR	21 BAR
1A1	120-1/8	3	64	007R00215 000	N/A	007R00215 000
1A2	144-1/8	3	64	007R00216 000	N/A	007R00216 000
2A3	168-1/8	4	64	007R00217 000	N/A	007R00217 000
2A4	192-1/8	4	64	007R00218 000	N/A	007R00218 000
2B1	168-1/8	4	85	007R00217 000	N/A	007R00217 000
3B2	192-1/8	4	85	007R00218 000	N/A	007R00218 000
3B3	216-1/8	5	85	007R00219 000	N/A	007R00219 000
4B4	240-1/8	5	85	007R00220 000	N/A	007R00220 000
4C1	192-1/8	4	121	007R00218 000	N/A	007R00218 000
5C2	216-1/8	5	121	007R00219 000	N/A	007R00219 000
5C3	240-1/8	5	121	007R00220 000	N/A	007R00220 000
6C4	270-1/8	6	121	007R00221 000	N/A	007R00221 000
7D1	216-1/8	5	166	007R00219 000	007R00219 000	007R00225 000
7D2	240-1/8	5	166	007R00220 000	007R00220 000	007R00226 000
8D3	270-1/8	6	166	007R00221 000	007R00221 000	007R00227 000
8E1	240-1/8	5	224	007R00220 000	007R00220 000	007R00228 000
9E2	270-1/8	6	224	007R00221 000	007R00221 000	007R00229 000
10E3	300-1/8	7	224	007R00222 000	007R00222 000	007R00230 000
12F1	270-1/8	6	300	007R00221 000	007R00221 000	007R00231 000
13F2	300-1/8	7	300	007R00222 000	007R00222 000	007R00232 000
14F3	330-1/8	7	300	007R00223 000	007R00223 000	007R00233 000

NOTES:

1. See unit nameplate and nomenclature section of this document to determine design level of unit.
2. All tubes are 3/4" O.D., .035" wall, 19 fpi, 90/10 CuNi.
3. When replacing tubes in the generator, it is highly recommended to replace the supports.
4. All design level "B" units have a generator design working temperature up to 337°F (169°C) for Steam units and 266°F (130°C) for Hot water units.

ABSORBER TUBES

TABLE 25 - YIA MODIFICATION LEVEL "D" ABSORBER TUBES

CHILLER MODEL	LENGTH (IN)	NOM. O.D. (IN)	NUMBER OF SUPPORTS	QTY	TYPE	(CU, .022") C-122 STANDARD OFFERING	(CU, .028") C-122 SPECIAL OPTION	(90/10 CuNi, .028") SPECIAL OPTION	(90/10 CuNi, .035") SPECIAL OPTION
1A1	120-1/8	3/4	2	164	Bare	007R00439 000	007R00258 000	007 06281 000	007 06077 000
1A2	144-1/8	3/4	2	164	Bare	007R00440 000	007R00259 000	007 06282 000	007 05034 000
2A3	168-1/8	3/4	2	164	Bare	007R00441 000	007R00260 000	007 06283 000	007 05039 000
2A4	192-1/8	3/4	3	164	Bare	007R00442 000	007R00261 000	007 06284 000	007 05057 000
2B1	168-1/8	3/4	2	225	Bare	007R00441 000	007R00260 000	007 06283 000	007 05039 000
3B2	192-1/8	3/4	3	225	Bare	007R00442 000	007R00261 000	007 06284 000	007 05057 000
3B3	216-1/8	3/4	3	225	Bare	007R00443 000	007R00262 000	007 06285 000	007 05056 000
4B4	240-1/8	3/4	4	225	Bare	007R00444 000	007R00263 000	007 06286 000	007 05058 000
4C1	192-1/8	3/4	3	323	Bare	007R00442 000	007R00261 000	007 06284 000	007 05057 000
5C2	216-1/8	3/4	3	323	Bare	007R00443 000	007R00262 000	007 06285 000	007 05056 000
5C3	240-1/8	3/4	4	323	Bare	007R00444 000	007R00263 000	007 06286 000	007 05058 000
6C4	270-1/8	3/4	4	323	Bare	007R00445 000	007R00264 000	007 06287 000	007 05129 000
7D1	216-1/8	3/4	3	441	Bare	007R00443 000	007R00262 000	007 06285 000	007 05056 000
7D2	240-1/8	3/4	4	441	Bare	007R00444 000	007R00263 000	007 06286 000	007 05058 000
8D3	270-1/8	3/4	4	441	Bare	007R00445 000	007R00264 000	007 06287 000	007 05129 000
8E1	240-1/8	3/4	4	571	Bare	007R00444 000	007R00263 000	007 06286 000	007 05058 000
9E2	270-1/8	3/4	4	571	Bare	007R00445 000	007R00264 000	007 06287 000	007 05129 000
10E3	300-1/8	3/4	5	571	Bare	007R00446 000	007R00265 000	007 06288 000	007 05676 000
12F1	270-1/8	3/4	4	731	Bare	007R00445 000	007R00264 000	007 06287 000	007 05129 000
13F2	300-1/8	3/4	5	731	Bare	007R00446 000	007R00265 000	007 06288 000	007 05676 000
14F3	330-1/8	3/4	5	731	Bare	007R00447 000	007R00266 000	007 06289 000	007R00119 000

NOTES:

1. All copper tubes are copper are material C-122.
2. Above tube part numbers are applicable for YIA Design Level "A", "B", and "ES" machines. Consult unit nameplate and nomenclature section of this document to determine unit design level.

CONDENSER TUBES

TABLE 26 - YIA MODIFICATION LEVEL "D" CONDENSER TUBES

CHILLER MODEL	LENGTH (IN)	NOM. O.D. (IN)	NUMBER OF SUPPORTS	QTY	TYPE	(CU, .022") C-122 3/4" STANDARD OFFERING	(CU, .025") C-122 1" STANDARD OFFERING	(CU, .028") C-122 SPECIAL OPTION	(90/10, CuNi, .028") SPECIAL OPTION	(90/10, CuNi, .035") SPECIAL OPTION
1A1	120-1/8	3/4	2	49	Bare	007R00439 000	N/A	007R00258 000	007 06281 000	007 06077 000
1A2	144-1/8	3/4	2	49	Bare	007R00440 000	N/A	007R00259 000	007 06282 000	007 05034 000
2A3	168-1/8	1	2	37	Bare	N/A	007R00394 000	007R00267 000	007 06290 000	007 06080 000
2A4	192-1/8	1	3	37	Bare	N/A	007R00395 000	007R00268 000	007 06291 000	007 06081 000
2B1	168-1/8	3/4	2	72	Bare	007R00441 000	N/A	007R00260 000	007 06283 000	007 05039 000
3B2	192-1/8	1	3	54	Bare	N/A	007R00395 000	007R00268 000	007 06291 000	007 06081 000
3B3	216-1/8	1	3	54	Bare	N/A	007R00397 000	007R00269 000	007 06292 000	007 06082 000
4B4	240-1/8	1	4	54	Bare	N/A	007R00398 000	007R00270 000	007 06293 000	007 06083 000
4C1	192-1/8	3/4	3	111	Bare	007R00442 000	N/A	007R00261 000	007 06284 000	007 05057 000
5C2	216-1/8	1	3	83	Bare	N/A	007R00397 000	007R00269 000	007 06292 000	007 06082 000
5C3	240-1/8	1	4	83	Bare	N/A	007R00398 000	007R00270 000	007 06293 000	007 06083 000
6C4	270-1/8	1	4	83	Bare	N/A	007R00400 000	007R00271 000	007 06294 000	007 06084 000
7D1	216-1/8	1	3	114	Bare	N/A	007R00397 000	007R00269 000	007 06292 000	007 06082 000
7D2	240-1/8	1	4	114	Bare	N/A	007R00398 000	007R00270 000	007 06293 000	007 06083 000
8D3	270-1/8	1	4	114	Bare	N/A	007R00400 000	007R00271 000	007 06294 000	007 06084 000
8E1	240-1/8	1	4	162	Bare	N/A	007R00398 000	007R00270 000	007 06293 000	007 06083 000
9E2	270-1/8	1	4	162	Bare	N/A	007R00400 000	007R00271 000	007 06294 000	007 06084 000
10E3	300-1/8	1	5	162	Bare	N/A	007R00401 000	007R00272 000	007 06295 000	007 06085 000
12F1	270-1/8	1	4	212	Bare	N/A	007R00400 000	007R00271 000	007 06294 000	007 06084 000
13F2	300-1/8	1	5	212	Bare	N/A	007R00401 000	007R00272 000	007 06295 000	007 06085 000
14F3	330-1/8	1	5	212	Bare	N/A	007R00402 000	007R00273 000	007 06296 000	007 06086 000

EVAPORATOR TUBES

TABLE 27 - YIA MODIFICATION LEVEL "D" EVAPORATOR TUBES

CHILLER MODEL	LENGTH (IN)	NOM. O.D. (IN)	NUMBER OF SUPPORTS	QTY	TYPE	(CU, .025") C-122 STANDARD OFFERING	(CU, .028") C-122 SPECIAL OPTION	(90/10, CuNi, .028") SPECIAL OPTION	(90/10, CuNi, .035") SPECIAL OPTION
1A1	120-1/8	3/4	2	160	19 cont.fin	007R00423 000	007 06264 000	007R00173 000	007R00403 000
1A2	144-1/8	3/4	2	160	19 cont.fin	007R00424 000	007 06265 000	007R00076 000	007R00404 000
2A3	168-1/8	3/4	2	160	19 cont.fin	007R00425 000	007 06266 000	007R00174 000	007R00405 000
2A4	192-1/8	3/4	3	160	19 cont.fin	007R00426 000	007 06267 000	007R00175 000	007R00406 000
2B1	168-1/8	3/4	2	216	19 cont.fin	007R00425 000	007 06266 000	007R00174 000	007R00405 000
3B2	192-1/8	3/4	3	216	19 cont.fin	007R00426 000	007 06267 000	007R00175 000	007R00406 000
3B3	216-1/8	3/4	3	216	19 cont.fin	007R00427 000	007 06268 000	007R00150 000	007R00407 000
4B4	240-1/8	3/4	4	216	19 cont.fin	007R00428 000	007 06269 000	007R00125 000	007R00408 000
4C1	192-1/8	3/4	3	312	19 cont.fin	007R00426 000	007 06267 000	007R00175 000	007R00406 000
5C2	216-1/8	3/4	3	312	19 cont.fin	007R00427 000	007 06268 000	007R00150 000	007R00407 000
5C3	240-1/8	3/4	4	312	19 cont.fin	007R00428 000	007 06269 000	007R00125 000	007R00408 000
6C4	270-1/8	3/4	4	312	19 cont.fin	007R00429 000	007 06247 000	007R00062 000	007R00409 000
7D1	216-1/8	3/4	3	429	19 cont.fin	007R00427 000	007 06268 000	007R00150 000	007R00407 000
7D2	240-1/8	3/4	4	429	19 cont.fin	007R00428 000	007 06269 000	007R00125 000	007R00408 000
8D3	270-1/8	3/4	4	429	19 cont.fin	007R00429 000	007 06247 000	007R00062 000	007R00409 000
8E1	240-1/8	3/4	4	552	19 cont.fin	007R00428 000	007 06269 000	007R00125 000	007R00408 000
9E2	270-1/8	3/4	4	552	19 cont.fin	007R00429 000	007 06247 000	007R00062 000	007R00409 000
10E3	300-1/8	3/4	5	552	19 cont.fin	007R00430 000	007 06270 000	007R00116 000	007R00349 000
12F1	270-1/8	3/4	4	704	19 cont.fin	007R00429 000	007 06247 000	007R00062 000	007R00409 000
13F2	300-1/8	3/4	5	704	19 cont.fin	007R00430 000	007 06270 000	007R00116 000	007R00349 000
14F3	330-1/8	3/4	5	704	19 cont.fin	007R00431 000	007 06271 000	007R00073 000	007R00410 000

TUBE SUPPORTS

TABLE 28 - TUBE SUPPORTS FOR MODIFICATION LEVEL "B" AND LATER CHILLERS

UNIT MODEL	GENERATOR		CONDENSER		ABSORBER		EVAPORATOR	
	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER
1A1	3	066-23508-000	2	066-52359-000	2	066-24633-000	2	066-24672-000
1A2	3	066 23508 000	2	066 52359 000	2	066 24633 000	2	066 24672 000
2A3	4	066 23508 000	2	066 52360 000	2	066 24633 000	2	066 24672 000
2A4	4	066 23508 000	3	066 52360 000	3	066 24633 000	3	066 24672 000
2B1	4	066 24977 000	2	066 43323 000	2	066 25134 000	2	066 25162 000
3B2	4	066 24977 000	3	066 24997 000	3	066 25134 000	3	066 25162 000
3B3	5	066 24977 000	3	066 24997 000	3	066 25134 000	3	066 25162 000
4B4	5	066 24977 000	4	066 24997 000	4	066 25134 000	4	066 25162 000
4C1	4	066 21490 000	3	066 46353 000	3	066 21363 000	3	066 21400 000
5C2	5	066 21490 000	3	066 21492 000	3	066 21363 000	3	066 21400 000
5C3	5	066 21490 000	4	066 21492 000	4	066 21362 000	4	066 21400 000
6C4	6	066 21490 000	4	066 21492 000	4	066 21362 000	4	066 21400 000
7D1	5	066 26490 000	3	066 26509 000	3	066 26385 000	3	066 26406 000
7D2	5	066 26490 000	4	066 26509 000	4	066 26385 000	4	066 26406 000
8D3	6	066 26490 000	4	066 26509 000	4	066 26385 000	4	066 26406 000
8E1	5	066 27401 000	4	066 27412 000	4	066 27951 000	4	066 27978 000
9E2	6	066 27401 000	4	066 27412 000	4	066 27951 000	4	066 27978 000
10E3	7	066 27401 000	5	066 27412 000	5	066 27951 000	5	066 27978 000
12F1	6	066 28495 000	4	066 28518 000	4	066 28764 000	4	066 28786 000
13F2	7	066 28495 000	5	066 28518 000	5	066 28764 000	5	066 28786 000
14F3	7	066 28495 000	5	066 28518 000	5	066 28764 000	5	066 28786 000

NOTES FOR ALL TUBE SUPPORTS:

1. See unit nameplate and nomenclature section of this document to determine design level of unit.
2. Tube supports are special order items at the Baltimore Parts Center, extended delivery may apply.

HEAT EXCHANGERS

TABLE 29 - SOLUTION-TO-SOLUTION HEAT EXCHANGERS

UNIT MODEL	O.A.L. (INCHES)	TUBE LENGTH (INCHES)	TUBE QUANTITY	HEAT EXCHANGER PART NUMBER	SPRING TURBULATOR PART NUMBER	TUBE PART NUMBER
1A1	112	104-1/4	82	375R00760B000	029 13628 000	003 01855 000
1A2	136	128-1/4		375R00766B000	029 10007 000	003 01630 000
2A3	160	152-1/4		375R00768B000	029 10008 000	003 01656 000
2A4	184	176-1/4		375R00769B000	029 10009 000	003 01657 000
2B1	160	152-1/4	107	375R00800B000	029 10008 000	003 01656 000
3B2	184	176-1/4		375R00801B000	029 10009 000	003 01657 000
3B3	206	198-1/4		375R00802B000	029 10010 000	003 01658 000
4B4	227	219-1/4		375R00803B000	029 10011 000	003 01644 000
4C1	160	152-1/4	154	375R00814B000	029 10008 000	003 01656 000
5C2	184	176-1/4		375R00815B000	029 10009 000	003 01657 000
5C3	206	198-1/4		375R00816B000	029 10010 000	003 01658 000
6C4	227	219-1/4		375R00817B000	029 10011 000	003 01644 000
7D1	184	176-1/4	209	375R00832B000	029 10009 000	003 01657 000
7D2	206	198-1/4		375R00833B000	029 10010 000	003 01658 000
8D3	227	219-1/4		375R00834B000	029 10011 000	003 01644 000
8E1	188	176-1/4	294	375R00858B000	029 10009 000	003 01657 000
9E2	210	198-1/4		375R00859B000	029 10010 000	003 01658 000
10E3	231	219-1/4		375R00860B000	029 10011 000	003 01644 000
12F1	164	152-1/4	495	375R00861B000	029 10008 000	003 01656 000
13F2	188	176-1/4		375R00862B000	029 10009 000	003 01657 000
14F3	210	198-1/4		375R00863B000	029 13775 000	003 01658 000

NOTES:

1. All tubes are steel 1/2" O.D., .049" wall.
2. All heat exchangers are special ordered items, through Factory Marketing dept.

GASKETS AND ELASTOMERS

TABLE 30 - MODIFICATION LEVEL B AND LATER CHILLERS (UNITS BUILT AFTER FEBRUARY 1999)

COMPONENT	MODEL NUMBER FAMILY	ASME AND PED	
		DWP 150 LB (10 BAR) & 300 LB (21 BAR)	
		YORK PART NUMBER	QUANTITY
GENERATOR	A	028R00965 000	9 ft (2.7 m)
	B	028R00965 000	10 ft (3.0 m)
	C	028R00965 000	11 ft (3.4 m)
	D	028R00965 000	14 ft (4.3 m)
	E	028R00965 000	15 ft (4.6 m)
	F	028R00965 000	17 ft (5.2 m)

COMPONENT	MODEL NUMBER FAMILY	COMPACT WATER BOXES				MARINE WATER BOXES *	
		DWP 150 LB		DWP 300 LB		DWP 150 LB	
		PART NUMBER	QTY.	PART NUMBER	QTY.	PART NUMBER	QTY.
CONDENSER	A	028R01009 000	10 ft	028R00950 000	10 ft	075R02391 002	2 pcs
	B	028R01009 000	10 ft	028R00950 000	10 ft	075R02391 005	2 pcs
	C	028R01009 000	12 ft	028R00950 000	12 ft	075R02391 008	2 pcs
	D	028R01009 000	12 ft	028R00950 000	12 ft	075R02391 011	2 pcs
	E	028R01009 000	15 ft	028R00950 000	15 ft	075R02391 014	2 pcs
	F	028R01009 000	16 ft	028R00950 000	16 ft	075R02391 017	2 pcs
EVAPORATOR	A	028R01009 000	11 ft	028R00950 000	11 ft	075R02391 003	2 pcs
	B	028R01009 000	13 ft	028R00950 000	13 ft	075R02391 006	2 pcs
	C	028R01009 000	15 ft	028R00950 000	15 ft	075R02391 009	2 pcs
	D	028R01009 000	17 ft	028R00950 000	17 ft	075R02391 012	2 pcs
	E	028R01009 000	20 ft	028R00950 000	20 ft	075R02391 015	2 pcs
	F	028R01009 000	23 ft	028R00950 000	23 ft	075R02391 018	2 pcs
ABSORBER	A	028R01009 000	15 ft	028R00950 000	15 ft	075R02391 001	2 pcs
	B	028R01009 000	18 ft	028R00950 000	18 ft	075R02391 004	2 pcs
	C	028R01009 000	20 ft	028R00950 000	20 ft	075R02391 007	2 pcs
	D	028R01009 000	25 ft	028R00950 000	25 ft	075R02391 010	2 pcs
	E	028R01009 000	28 ft	028R00950 000	28 ft	075R02391 013	2 pcs
	F	028R01009 000	32 ft	028R00950 000	32 ft	075R02391 016	2 pcs

NOTES:

All families: pass baffle gaskets are 028 15842 00.

All families: sight glass gaskets 4" OD x 3-3/8 ID (2 required) are 070 16406 000.

* Compact water boxes gaskets are used on the return water boxes for even pass arrangements. Quantity shown is for odd pass arrangements boxes.

CHEMICALS AND COMPOUNDS

TABLE 31 - CHEMICALS AND COMPOUNDS

ITEM DESCRIPTION	PART NUMBER
Lithium Bromide Solution, ADVAGuard 750 Inhibited, (30 gallon drum)	011 00903 000
ADVAGuard 750A Solution, (1/2 gallon bottle)	011 00931 000
ADVAGuard 750A Solution, (1 gallon bottle)	011 00932 000
ADVAGuard 750B Powder, (50 gram container)	011 00933 000
ADVAGuard 750B Powder (100 gram container)	011 00934 000
ADVAGuard 750B Powder (500 gram container)	011 00935 000
Lithium Bromide Solution, Molybdate inhibited, (30 gallon drum)	011 00556 000
Lithium Bromide Solution, Uninhibited, (30 gallon drum)	011 00940 000
Refrigerant, De-ionized water (55 gallon drum)	011 00548 000
Lithium Molybdate Inhibitor, Powder, (1lb. bottle) (ADVAGuard 591)	011 00557 000
Lithium Molybdate Inhibitor, Liquid*, (ADVAGuard 590)	011 00905 000
Lithium Nitrate Inhibitor, Powder, (1lb. bottle) (ADVAGuard 391)	011 00524 002
Lithium Hydroxide Monohydrate, Powder (5lb. can) (ADVAGuard 290)	044 02985 000
Alcohol, (2-Ethyl -1 -Hexanol), (5 gallon pail)	011 00524 003
Alcohol, (2-Ethyl -1 -Hexanol), 3Kg (1 gallon)	044 02294 000
Adhesive, Gasket (5oz. tube)	013 00995 000
Thread Cleaner (16oz. pump spray bottle, shelf life 1 year)	013 02899 000
Thread Primer (1.75oz. bottle w/brush)	013 01753 000
Thread Sealer, for stainless steel threads (250 ml tube, shelf life 1 year)	013 02280 000
Thread Sealer, for carbon steel threads (250 ml tube, shelf life 1 year)	013 02023 000
Sealer, for carbon wear rings on new style pumps (50 ml bottle, shelf life 1 year)	013 03026 000
Vacuum Sealant, (4oz. can)	013 02882 003
Vacuum Grease (5.3oz. tube)	011 00901 000
Sealer, for tube rolling in Cond., Evap., and Absorber (250 ml bottle)	013 01046 000
Sealer, for tube rolling in Generator (50 ml bottle)	013 02998 000
Heat Conductive Compound, for thermowells in low temp. areas, (4oz. can)	013 00898 000
Heat Conductive Compound, for thermowells in high temp. areas (16oz. can)	013 03398 000
P-80 Rubber Lubricant, (1 pint)	044 01711 000
Oil, YORK Vacuum Pump, (1 gallon bottle)	011 00524 004
Insulation / Adhesive:	
Paint, Caribbean Blue touchup, (16oz. spray can)	013 01835 000
Paint, Caribbean Blue (1 gal for spray)	013 01842 000
Paint, Caribbean Blue (5 gal for spray)	013 02510 000

NOTES:

* (1 pint bottle equals 0.4lb. of Molybdate Powder)

- Units built between January 1, 1999 and June, 2000 will be lithium molybdate inhibited. Consult unit nameplate for the correct solution inhibitor.
- Units built after June 2000 will have the ADVAGuard 750 inhibitor.
- YORK recommends a high-temperature epoxy for installing insulation or insulation pins to the generator. There is no YORK part number for this product. It can be obtained via the McMaster-Carr Catalog, Product No. 7563A24 for a one pint can, or 7563A26 for a one gallon can.
- When ordering ADVAGuard 750B, purchase only what is required. There is no shelf life of this product after container is opened.
- Original solution concentrations:

CONCENTRATION	INHIBITOR			
	CHROMATE	NITRATE	MOLYBDATE	ADVAGUARD
	54%	53%	55%	53%

SERVICE TOOLS

TABLE 32 - SERVICE AND NON-YORK SERVICE TOOLS

ITEM DESCRIPTION (SERVICE TOOLS)	PART NUMBER
500 mL polypropylene hydrometer flask (graduated cylinder)	044 02982 000
Refrigerant removal tank, includes hose and two clamps (hose 5/8" ID x 1.024" OD)	026 32007 002
Ammonia and Alkaline solution test kit	026 32824 000
Chromate corrosion inhibitor test kit (chromate inhibited units only)	026 18304 000
Thermometer Kit "A", (contains two thermometers below)	366 34332 000
1) thermometer, 12" long, mercury filled, -30 to 120°F range	026 14087 000
2) thermometer, 12" long, mercury filled, 0 to 230°F range	026 14088 000
Hydrometer Kit, case and set of eight hydrometers (contains 1 thru 8 below)	026 32366 000
1) hydrometer, range .700 to .810 specific gravity	026 32366 001
2) hydrometer, range .800 to .910 specific gravity	026 32366 002
3) hydrometer, range .900 to 1.010 specific gravity	026 32366 003
4) hydrometer, range 1.000 to 1.220 specific gravity	026 32366 004
5) hydrometer, range 1.200 to 1.420 specific gravity	026 32366 005
6) hydrometer, range 1.400 to 1.620 specific gravity	026 32366 006
7) hydrometer, range 1.600 to 1.820 specific gravity	026 32366 007
8) hydrometer, range 1.800 to 2.000 specific gravity	026 32366 008
Solution Sample Kit (Lithium Bromide)	028 15065 000
Spindle Valve Adapter	922 08869 001
Tubing, vacuum pump, clear reinforced, 3/4" ID x 1.024" OD	028 13535 000
Tubing bubble leak check, clear, 1/4" ID x 3/8" OD	028 10605 000

In addition to the above YORK Service Tools, some Non-YORK service tools may be required and must be purchased independently.

ITEM DESCRIPTION (NON-YORK SERVICE TOOLS)	PART NUMBER
Safety glasses	
Rubber gloves	
Water resistant apron	
High intensity flashlight, such as the AA Mini Maglite.	
Gas washing bottle (combination 250 mL polypropylene graduated cylinder and vacuum flask) ideal for taking solution specific gravity. Phone 1-800-323-4340	Cole-Parmer Cat. Number P-06652-00
Infrared thermometer, such as the Exergen Microscanner D500F, phone 1-800-422-3006.	
Small utility/transfer pump, such as one of the below;	
1/2 hp portable self-priming pump.	Grainger #2P110A
1/10 hp self-priming marine utility pump.	Grainger #1P579F
Portable vacuum pump capable of pulling down to 3mm Hg Abs.	
Digital or analog multimeter, such as the Fluke 87.	
Mixed bed de-ionizer (can be rented through local water treatment company).	
Heavy duty plastic garbage cans, approx. 55 gallon size.	
Heavy duty plastic bucket, approx 3 gallon size.	
Miscellaneous; normal mechanics hand tools, 1/4" hose barbs, hose clamps, teflon tape and various connectors for attaching hose to vacuum pump and sample flasks.	
Solution Filter: PALL Corporation, FMO Series Filter housing	6FMO1A-2-IP
Filter Cartridge, Poly-Fine ARD Series, phone 1-888-873-7255	ARD_IOUE-DOE

SPRAY NOZZLES

TABLE 33 - SPRAY NOZZLES

COMPONENT	MODEL	PART NUMBER	QUANTITY	ORIFICE SIZE	NOZZLE
EVAPORATOR	1A1	023 08842 000	26	.235"	1/2GA - 35W
	1A2	023 08842 000	30	.235"	1/2GA - 35W
	2A3	023 08842 000	36	.235"	1/2GA - 35W
	2A4	023 08842 000	40	.235"	1/2GA - 35W
	2B1	023 10209 000	38	.265"	1/2HH - 50W
	3B2	023 10209 000	44	.265"	1/2HH - 50W
	3B3	023 10209 000	50	.265"	1/2HH - 50W
	4B4	023 10209 000	54	.265"	1/2HH - 50W
	4C1	023 10209 000	44	.265"	1/2HH - 50W
	5C2	023 10209 000	50	.265"	1/2HH - 50W
	5C3	023 10209 000	56	.265"	1/2HH - 50W
	6C4	023 10209 000	62	.265"	1/2HH - 50W
	7D1	023 10209 000	58	.265"	1/2HH - 50W
	7D2	023 10209 000	66	.265"	1/2HH - 50W
	8D3	023 10209 000	74	.265"	1/2HH - 50W
	8E1	023 10209 000	78	.265"	1/2HH - 50W
	9E2	023 10209 000	87	.265"	1/2HH - 50W
	10E3	023 10209 000	96	.265"	1/2HH - 50W
	12F1	023 10209 000	99	.265"	1/2HH - 50W
	13F2	023 10209 000	111	.265"	1/2HH - 50W
	14F3	023 10209 000	120	.265"	1/2HH - 50W
ABSORBER	1A1	023 09732 000	36	.265"	1/2GA - 50W
	1A2	023 09732 000	45	.265"	1/2GA - 50W
	2A3	023 09732 000	51	.265"	1/2GA - 50W
	2A4	023 09732 000	60	.265"	1/2GA - 50W
	2B1	023 10209 000	60	.265"	1/2HH 50W
	3B2	023 10209 000	69	.265"	1/2HH - 50W
	3B3	023 10209 000	78	.265"	1/2HH - 50W
	4B4	023 10209 000	87	.265"	1/2HH - 50W
	4C1	023 10209 000	84	.265"	1/2HH - 50W
	5C2	023 10209 000	92	.265"	1/2HH - 50W
	5C3	023 10209 000	104	.265"	1/2HH - 50W
	6C4	023 10209 000	116	.265"	1/2HH - 50W
	7D1	375R01992 001	76	-	YORK
	7D2	375R01992 001	84	-	YORK
	8D3	375R01992 001	96	-	YORK
	8E1	375R01992 002	100	-	YORK
	9E2	375R01992 002	115	-	YORK
	10E3	375R01992 002	125	-	YORK
	12F1	375R01992 003	120	-	YORK
	13F2	375R01992 003	130	-	YORK
	14F3	375R01992 003	145	-	YORK

SPARE PARTS LIST

It is recommended that certain parts be stocked by the customer to facilitate prompt service in the event of a component failure. Spare parts inventory will, of course, depend upon the degree of self-sufficiency required by the building owner or customer. YORK has prepared two parts lists to handle all conditions in which part replacement would be necessary for the ab-

sorption chiller. The first table is for preventive, regular and scheduled maintenance of the chiller, the second table is for emergency chiller repairs due to component failures.

The following table includes parts recommended by YORK to sufficiently service the unit under normal circumstances.

TABLE 34 - PREVENTIVE, REGULAR AND SCHEDULED MAINTENANCE SPARE PARTS

MODEL	DESCRIPTION	QUANTITY	PART NUMBER	COMMENTS
All	Solution Sample kit	1	028 15065 000	
All	Inhibitor (choose only one)	1 lb.	See Chemicals & Compounds section for Part Number	
All	Vacuum pump oil	1 gal.	011 00524 004	
All	Vacuum Sealant	1	013 02882 003	One 4 oz. can
All	Vacuum grease	1	011 00901 000	5.3 oz. tube
All	Thread cleaner	1	013 02899 000	One aerosol can
All	Thread primer	1	013 01753 000	One 1.75 oz. bottle
All	Thread sealer	1	013 02023 000	250 mL tube
All	Heat conductive compound - Low temp areas	1	013 00898 000	4 oz. can
All	Heat conductive compound - High temp areas	1	013 03398 000	16 oz. can
All	Adhesive, gasket	1	013 00995 000	5 oz. tube
All	Replacement diaphragm	2	See Valve Section	For 3/4" diaphragm valves
All	O-ring Repair Kit	3	028 12271 002	For 1/2" spindle valves
-	O-ring Repair Kit	1	028 12271 003	For 1" spindle valves
All	Water box pass baffle (channel) gasket ¹	25 ft.	028 15842 025	For water boxes with multiple passes only
-	Generator head gasket ²	-	See appropriate Gasket and Elastomer section in this document for correct part number per the design level and model of chiller.	
-	Condenser head gasket ²	-		
-	Absorber head gasket ²	-		
-	Evaporator head gasket ²	-		
-	New motor w/pump repair kit for refrigerant pump	1	See Pump Repair Kits section in this document for part number per the correct voltage and model of chiller.	
-	New motor w/pump repair kit for solution pump	1		
-	Replacement control valve actuator	1	See Valve Section in this document for appropriate replacement actuator.	

NOTES:

1. This gasket is only for heat exchangers with more than one pass. YORK recommends stocking a total of 25 feet for each chiller.
2. The condenser, evaporator and absorber use the same part number gasket. YORK recommends stocking 25 feet of gasket for each heat exchanger water box. These gaskets come on a roll and are ordered by the foot.

EMERGENCY SPARE PARTS LIST

The table below includes parts recommended for emergency chiller failures in the event the chiller goes off line and chiller operation must be resumed as soon as possible. **The parts in the below table should be**

stocked in addition to the parts listed in the preventive, regular and scheduled maintenance spare parts table.

TABLE 35 - EMERGENCY SPARE PARTS

MODEL	DESCRIPTION	QUANTITY	PART NUMBER	COMMENTS
All	Temperature Sensor (50,000 ohms)	1	025 30457 000	High temperature areas of unit
All	Temperature Sensor (3,000 ohms)	1	025 29964 000	Low temperature areas of unit
All	Pressure Transducer	1	025 29907 001	Generator PT1
All	High temperature cutout switch	1	025 29995 000	HT1
All	High pressure cutout switch	1	024R00132 000	HP1
All	Low refrigerant temperature cutout switch	1	025 29923 000	LRT
All	Fuse	1	025 29905 000	1FU, 7 amp
All	I/O board	1	-	(Note 2)
All	Microboard	1	-	(Note 2)
All	Analog board	1	-	(Note 2)
-	Power supply board	1	See Control Panel renewal parts book 155.21-RP1, for correct part number per the unit electrical code.	
-	Relay control board	1		
-	Relay control board	1		
-	Digital input board	1		
-	Pump contactors	1 each pump	See Power Panel Components section of this document for correct part number per unit voltage, model, and electrical code.	
-	Motor protectors			
-	Primary fuse or Circuit breaker	1		
-	Disconnect switch	1		
ALL	YORK Vacuum Pump V-Belt	1	028 14424 000	208-230/460-3-60 models (belt size 4L415)
ALL	YORK Vacuum Pump V-Belt	1	028 14425 000	380/400/415-3-50 models only (belt size 41-0713)
ALL	YORK Vacuum Pump V-Belt	1	028 14424 000	208-230/460-3-60 models w/TEFC motor (belt size 4L415)
ALL	Temperature Sensor	1	025 28935 000	3,000 ohms
ALL	Rupture Disk	1	See Note 1	
ALL	Temperature Sensor (50K)	1	025 29924 000	RT2 & RT10
IAI-6c4	Spare parts kit for 2 & 3 SOL	1	025 18583 000	Unloader & stabilizer valves
7DI -14F3	Spare parts kit for 2 & 3 SOL	1	025 18584 000	Unloader & stabilizer valves

NOTES:

1. See Rupture Disk section of this document for applicable disk per Model No.
2. See Control Panel - Renewal Parts book 155.21-RP 1

SHIP LOOSE PARTS (STANDARD ONE PIECE SHIPMENTS)

TABLE 36 - SHIP LOOSE PARTS (STANDARD ONE PIECE SHIPMENTS)

	DESCRIPTION	PART NUMBER	QUANTITY
1	Unit Vacuum Guage	026 45534 000	1
2	1 inch Coupling	066 67309 000	1
3	Alcohol (2-Ethyl, 1-Hexanol)	044 02294 000	var
4	Heat Conductive Compound	013 00898 000	4 oz
5	Hose, 3/4" ID X 1.024" OD	028 13535 000	3'
6	Hose Clamp	021 12930 000	2
7	Sample Valve Adapter	922 08869 001	1
8	Drawing for Label Instructions		1
9	Operations Manual	155.21-O1	1
10	Operation and Maintenance Manual	155.21-OM1	1
11	Installation Manual	155.21-N1	1

NOTES



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