

	Millennium™ AIR-COOLED SCREW LIQUID CHILLERS AIR-COOLED SCREW HERMETIC	
RENEWAL PARTS	Supersedes: Nothing	Form 201.10-RP3 (198)

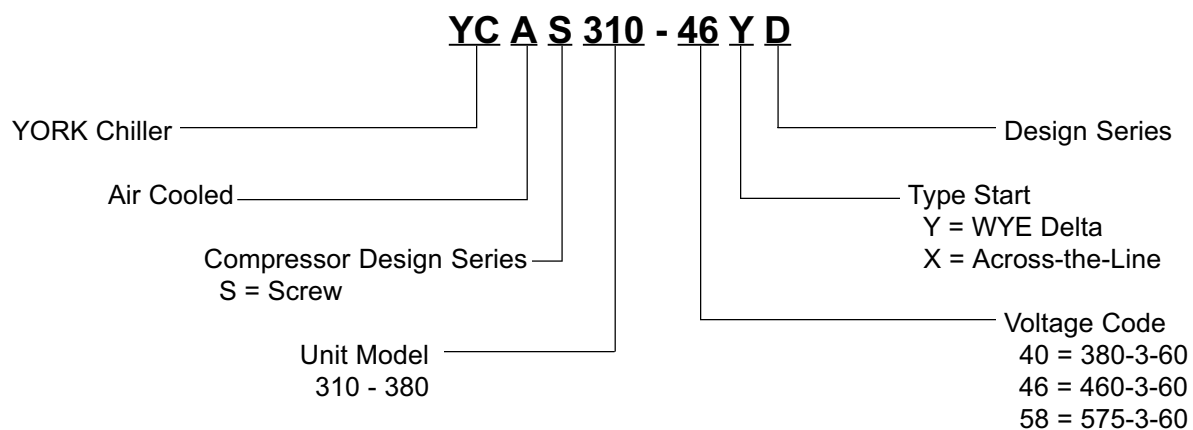
60 HERTZ

**YCAS310, YCAS340,
YCAS360, YCAS380**

STYLE D

UNIT NOMENCLATURE

The model number denotes the following characteristics of the unit:



WARNING

HIGH VOLTAGE
is used in the operation of this equipment
DEATH OR SERIOUS INJURY
may result if personnel fail to observe precautions.

Work on electronic equipment should not be undertaken unless the individual(s) has (have) been trained in the proper maintenance of the equipment and is (are) familiar with its potential hazards.

Shut off power supply to equipment before beginning work and follow lockout procedures. When working inside equipment with power off, take special care to discharge every capacitor likely to hold dangerous potential.

Be careful not to contact high voltage connections when installing or operating this equipment.

LOW VOLTAGE

DO NOT be misled by the term "low voltage". Voltages as low as 50 volts may cause death.

COMPRESSOR PART NUMBERS

(Model XHS120 Semi-Hermetic Twin-Screw Compressor)

UNIT	SYSTEM	VOLTAGE CODE				
		17	28	40	46	58
YCAS310	1	NOT AVAILABLE	NOT AVAILABLE	015-02815-003	015-02815-004	015-02815-006
	2			015-02815-003	015-02815-004	015-02815-006
	3			015-02815-003	015-02815-004	015-02815-006
YCAS340	1	NOT AVAILABLE	NOT AVAILABLE	015-02809-003	015-02809-004	015-02809-006
	2			015-02818-003	015-02818-004	015-02818-006
	3			015-02809-003	015-02809-004	015-02809-006
YCAS360	1	NOT AVAILABLE	NOT AVAILABLE	015-02809-003	015-02809-004	015-02809-006
	2			015-02809-003	015-02809-004	015-02809-006
	3			015-02809-003	015-02809-004	015-02809-006
YCAS380	1	NOT AVAILABLE	NOT AVAILABLE	015-02807-003	015-02807-004	015-02807-006
	2			015-02807-003	015-02807-004	015-02807-006
	3			015-02807-003	015-02807-004	015-02807-006

(Engineering Data - Stamped on Unit Nameplate)

12 H 6 H 6 H 6 R N 6 A

3 Compressor "W" Chiller Configuration
All Units Economized
(4 Fans & 8-32"x 83" Coils per Module)
5 = 50Hz, 2 Modules, 2 Compressors
6 = 60Hz, 2 Modules, 2 Compressors
9 = 50Hz, 3 Modules, 2 Compressors
10 = 60Hz, 3 Modules, 2 Compressors
11 = 50Hz, 3 Modules, 3 Compressors
12 = 60Hz, 3 Modules, 3 Compressors

Gear in System #1 Compressor
(A, F, H, M, P, or S)

Motor in System #1 Compressor
(See Motor List Below)

Gear in System #2 Compressor
(A, F, H, P, or S)

Motor in System #2 Compressor
(See Motor List Below)

Gear in System #3 Compressor
(A, F, H, M, P, or S)

Motor in System #3 Compressor
(See Motor List Below)

Refrigerant Code
(A = R-22, B = R-134a)

Condenser Fan Code
6 = 60 Hz, 6 Pole Motor, Standard
7 = 50 Hz, 6 Pole Motor, Standard
A = 60 Hz, 8 Pole Motor, Low Noise
B = 50 Hz, 8 Pole Motor, Low Noise

Condenser Code
L = 3 Row Coils in All Systems
M = 4 Row Coils in System #1 and #3
3 Row Coils in System #2
N = 4 Row Coils in Both Systems

Cooler Code
H = 16" Cooler
K = 18" Cooler
N = 20" Cooler
P = 24" Cooler
R = 24" Cooler

<u>MOTORS (60 Hz)</u>	<u>Max KW</u>
1 = 101 Frame, 8" Long	85
2 = 101 Frame, 9" Long	105
4 = 101 Frame, 10" Long	126
5 = 101 Frame, 10.75" Long	150

<u>MOTORS (60 Hz)</u>	<u>Max KW</u>
6 = 124 Frame, 9.5" Long (G)	184
7 = 124 Frame, 9.5" Long (K)	219
8 = 124 Frame, 10.75" Long (P)	263

COMPRESSOR COMPONENTS (All Unit Models)

ITEM NO.	DESCRIPTION	VOLT CODE	PART NUMBER ¹
1	COMPRESSOR GASKETS		
2	Suction Flange, 4 Bolt	ALL	534B 0448H01
3	Discharge Flange, 4 Bolt	ALL	534B 0447H01
4	Economizer Flange, 4 Bolt	ALL	534B 0446H01
5	DISCHARGE CHECK VALVE		
6	Complete Replacement Assembly, 120 mm	ALL	534C 1075G02
7	O-Ring only for Valve	ALL	980A 0012B06
8	SLIDE VALVE PARTS		
9	Slide Valve	ALL	534C 0803C01
10	Slide Valve Piston	ALL	534C 0938H01
11	Bolt	ALL	534A 0343H01
12	Glyde Ring (narrow)	ALL	534C 0187H08
13	Glyde Ring (wide)	ALL	534B 0079H04
14	Pipe Plug	ALL	944A 0008H04
15	O-Ring, Cylinder Cover	ALL	980A 0012A97
16	O-Ring, Piston	ALL	980A 0012A94
17	Slide Valve Control Solenoid	ALL	951A 0056H39
18	OIL HEATER (In Compressor)		
19	Heater (120 volt AC, 500 watt), 0.38 Diam x 5" Lg	ALL	522A 0175H03

NOTE:

¹ These part numbers are FRICK Part Numbers. Order through Baltimore Replacement Parts Center (RPC) in the same way as Parts with YORK Part Numbers are ordered.

OIL SEPARATOR FITTINGS (All Unit Models)

ITEM NO.	DESCRIPTION	VOLT CODE	PART NUMBER/ MANUFACTURER
20	Sight Glass, 1" MPT	ALL	3-020-014 AC&R Components, Inc.

COMPRESSOR FITTINGS (All Unit Models) – See Pages 5 and 6

YORK remanufactured compressors are available from the YORK Replacement Parts Center, Baltimore, MD. Call 1(800)932-1701 1(410)780-9330 or Fax 1(410)780-7450.

NOTE: Remanufactured Compressors DO NOT include the following:

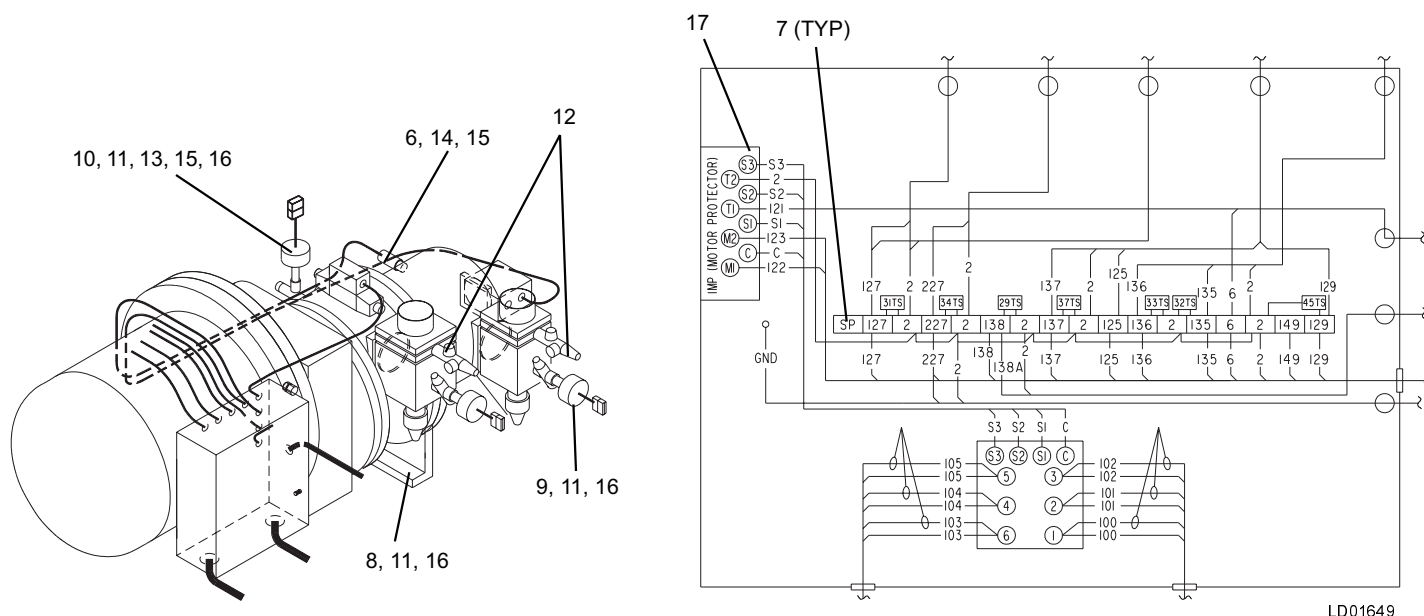
- Terminal Box Assembly
- Solenoid Valve
- Discharge Valve
- Motor Protector Module
- Suction Valve
- Economizer Valve
- Oil Heater

YORK PART EQUIVALENTS¹ FOR COMPRESSOR FITTINGS

ITEM NO.	YORK			EQUIVALENT SOURCE		
	DESCRIPTION	FROM LIST. PAGE	PART NUMBER		DESCRIPTION	MANUFACTURER
1	Valve, Transducer	6	022-09549-000	9290	Transducer Valve, 1/4 NPTE x 1/4 FL x 1/8 FPT, Brass	Henry Valve Co.
2	Valve, Pressure Tap	6	022-00009-000	7761B	Angle Stop Valve, 1/4 NPTE x 1/4 Flare, Packed Non-Backseating, Brass or Primore 22214-A	Henry Valve Co.
				A-11031		Mueller Refrig. Prod Co.
3	Adaptor, Mounting	6	023-18092-000	—	Reducer, 7/16-20UNF St. Thd. w/O-Ring Boss x 1/4-18NPT-2B (MXF), Brass	AQM ²
4	Adaptor, Mounting	6	023-18087-000	—	Reducer, 7/16-20UNF St. Thd. w/O-Ring Boss x 1/4 EXT. Flare (MXM), Brass	AQM ²
5	O-Ring (Use with Items 3 & 4)	6	028-13540-000	—	O-Ring, .351 ID x .072 Sect. (1/4 Fitting) AS-568-904 ³ , Neoprene-1	AQM ²
6	Bushing	6	023-18052-000	—	Bushing, 1/8NPTE x 1/4 NPTI, Brass	AQM ²
7	Muffler Kit Adaptor	27	023-18225-000	—	Reducer, 3/4-16UNF St. Thd. w/O-Ring Boss x 1/4-18NPTF (MXF), Brass	AQM ²
8	O-Ring (Use with Item 7)	27	028-12961-004	—	O-Ring, .644 ID x .087 Sect, (1/2 Fitting), AS-568-908 ³ , Neoprene-1	AQM ²

NOTE:

- ¹ Where a specific Manufacturer is listed, the Parts identified by the listed Part Numbers of the referenced Manufacturers are equivalent to the YORK Parts with which they are cross-referenced, as of this printing. As always, in the use of substitutes for original-equipment parts, interchangeability and suitability for intended use must be verified.
- ² AQM = Any Quality Management (e.g. Mueller Refrigeration Products Co., Parker-Hannifin Corp.)
- ³ AS-568 is an SAE (Society of Automotive Engineers) Standard which specifies O-Ring dimensions (ID and cross-section) and identifies this size by a Line Number (e.g. "-904"). Some manufacturers include the Line Number as a part of their Part Number. For example, a Parker-Hannifin Corp. O-Ring with the Part Number 3-904 is a (neoprene) O-Ring of 0.351 ID x 0.072 cross section (AS-568-904).



COMPRESSOR SYSTEM #1

FIG. 1 – COMPRESSOR AND COMPRESSOR TERMINAL BOX WIRING DIAGRAM - Typical

SYSTEM CONTROL COMPONENTS (See Figures 1 and 2)

ITEM NO.	QUANTITY PER UNIT	SYSTEM	DESCRIPTION		VOLTAGE CODE	PART NUMBER ALL MODELS
^s 1	1	—	SENSORS	Sensor, Outside Air (OAT)	ALL	025-28663-001
^s 2	2	—		Sensor, Water Temperature (LWT, RWT)	ALL	025-29964-000
^s 3	3	1, 2, 3		Sensor, Suction Temperature	ALL	025-28935-000
^s 4	3	1, 2, 3		Sensor, Oil Temperature	ALL	025-30440-000
^s 5	3	1, 2, 3		Sensor, Discharge Temperature	ALL	
^s 6	3	1, 2, 3	SWITCH	Switch, High Pressure Cutout	ALL	025-30480-000
^s 7	7	1	SUPPRESSOR	Suppressors for Compressor Unloading Solenoids, Liquid line Solenoids, Economizer Liquid Supply Solenoid, Liquid Injection Control Solenoid, Oil Supply Line Solenoid, Thermal Expansion Solenoid	ALL	031-01117-000
	6	2				
	6	3				
^s 8	3	1, 2, 3	TRANSDUCERS	Transducer, Suction Pressure	ALL	025-29583-000
^s 9	3	1, 2, 3		Transducer, Discharge Pressure	ALL	025-29139-001
^s 10	3	1, 2, 3		Transducer, Oil Pressure	ALL	
^s 11	9	1, 2, 3	VALVE	Valve, Transducer (Use with Items 8, 9 & 10)	ALL	022-09549-000
^s 12	6	1, 2, 3		Valve, Pressure Tap	ALL	022-00009-000
^s 13	3	1, 2, 3	ADAPTORS	Adaptor, Mounting (Includes Item 15) (Use with Item 10)	ALL	023-18092-000
^s 14	3	1, 2, 3		Adaptor, Mounting (Includes Item 15) (Use with Item 6)	ALL	023-18087-000
^s 15	6	1, 2, 3	O-RING	O-Ring (Use with Items 13 & 14)	ALL	028-13540-000
^s 16	9	1, 2, 3	BUSHING	Bushing (Use with Items 8, 9, & 10)	ALL	023-18052-000
^s 17	3	1, 2, 3	PROTECTOR	Module, Motor Protector	ALL	024-27821-000
^s 18	1	—	COMPOUND	Heat Conductive Compound (Use with Item 2)	ALL	013-00898-000

^s Recommended Stock Spare Parts

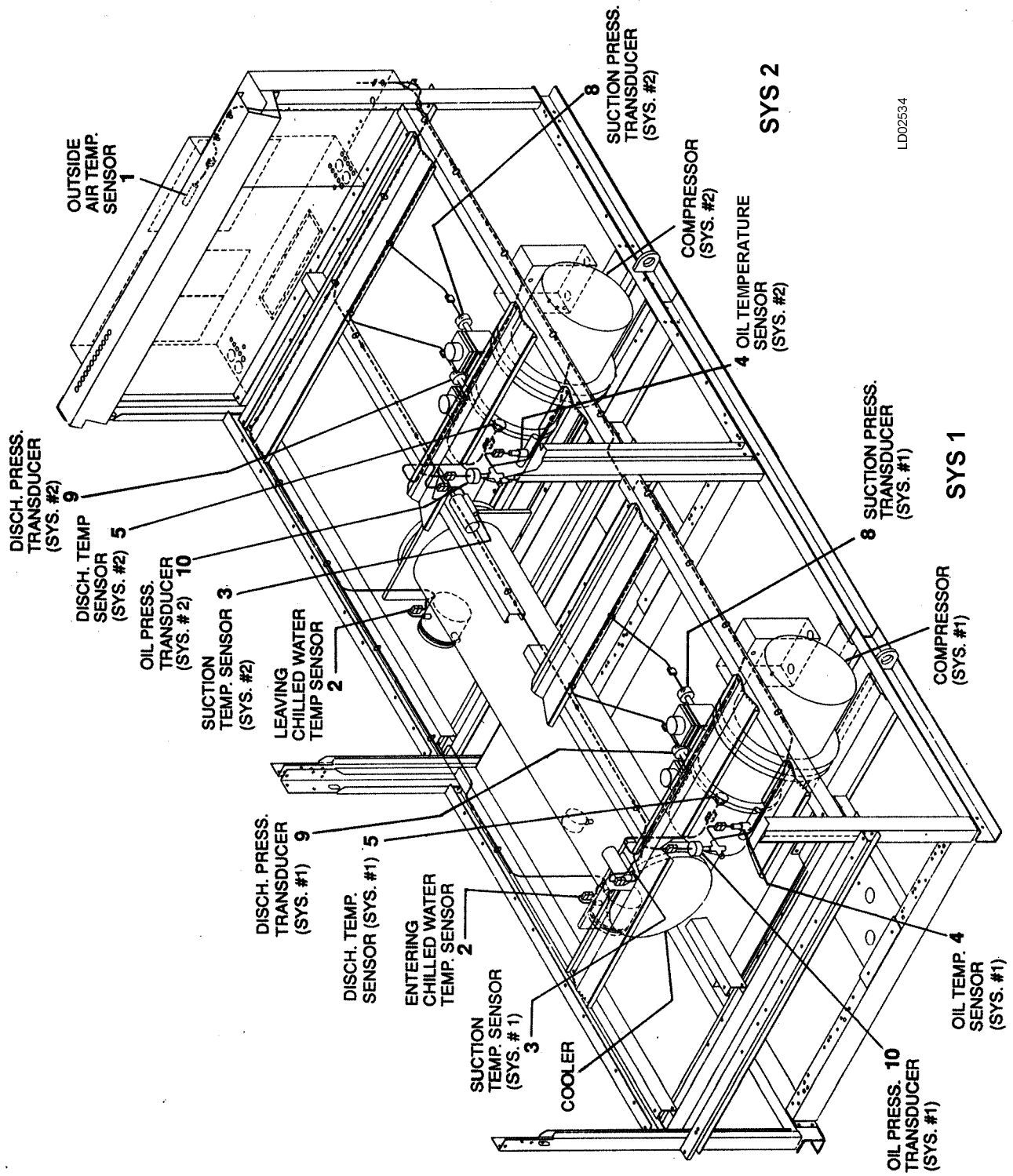


FIG. 2 – SYSTEM CONTROLS (SYSTEMS 1 & 2 Shown) (Control Locations also Typical for System 3 Components)

POWER PANEL CONTROL COMPONENTS (See Figure 3 – Master, Wye-Delta Panel Shown)¹

ITEM NO.	QUAN. / UNIT		TYPE START	SYS	LEGEND NUMBER	DESCRIPTION		VOLT. CODE	PART NO. ALL MODELS								
	Master	Sub															
^s 1	1		Wye-Delta	1	2M/1S	CONTACTORS	Contactor, Compressor (Includes Suppressor)	See Pages 12, 13									
^s 2	1		Wye-Delta		1A												
^s 3	1		Wye-Delta		1M												
^s 4	1		Across-the-Line														
^s 5	1		Wye-Delta	2	2S/4M												
^s 6	1		Wye-Delta		2A												
^s 7	1		Wye-Delta		3M												
^s 8	1		Across-the-Line														
^s 9		1	Wye-Delta	3	2M/1S												
^s 10		1	Wye-Delta		1A												
^s 11		1	Wye-Delta		1M												
^s 12		1	Across-the-Line														
^s 13	6 per module		COMMON	1	5M - 10M	Contactor, Fan (Includes Suppressor)	40	024-25521-000									
				2	11M - 16M		46	024-25521-000									
				3	5M - 10M		58	024-25521-000									
^s 14	1		Wye-Delta	1	1 OL	OVERLOADS	Overload, Compressor 024-27274-000; 0.16 - 0.25 FLA 024-27275-000; 0.25 - 0.40 FLA 024-27276-000; 0.40 - 0.63 FLA 024-27277-000; 0.63 - 1.0 FLA	See Pages 12, 13									
^s 15	1		Across-the-Line														
^s 16	1		Wye-Delta	2	2 OL												
^s 17	1		Across-the-Line														
^s 18		1	Wye-Delta	3	3 OL												
^s 19		1	Across-the-Line														
^s 20	4 per module		COMMON	1	5 OL - 8 OL		Overload, Fan Standard Unit	40	024-27267-000								
^s 21	4 per module			2	11 OL - 14 OL			46	024-27267-000								
^s 22	4 per module			3	5 OL - 8 OL			58	024-27267-000								

TABLE CONTINUED ON PAGE 9

NOTES:

^s = Recommended Stock Spare Parts

¹ = Across-the-Line (ACL) Power Panel not shown.

ACL Components are located similarly to same-numbered (See Item or Legend Numbers) Wye-Delta Components.

Subordinate Power Panel not shown. Subordinate Panel identical to Master Panel except System 2 components are not included and System 1 becomes System 3, with System 3 Item Numbers.

POWER PANEL CONTROL COMPONENTS (Cont'd)

ITEM NO.	QUAN. / UNIT		TYPE START	SYS	LEGEND NUMBER	DESCRIPTION		VOLT. CODE	PART NO. ALL MODELS
	Master	Sub							
^s 23	1	1	COMMON	—		FUSES	Electronic Power Supply Circuit (5 amp), 2FU	ALL	025-27922-000
^s 24	1	1		—			Control Circuit (20 amp), 1FU	ALL	025-28967-000
25	3	—		1		TRANSFORMERS	Transformer, Current (1CT, 2CT, 3CT)	ALL	025-27408-000
	3	—		2			(4CT, 5CT, 6CT)		
	—	3		3			(1CT, 2CT, 3CT)		
	—	—		—			—		
26	3	—		1			Transformer, Current (7CT, 8CT, 9CT)	ALL	025-21173-002
	3	—		2			(10CT, 11CT, 12CT)		
	—	3		3			(7CT, 8CT, 9CT)		
	—	—		—			—		
27	4	—		1, 2		INTERLOCKS	Fan Contactor Interlock, Mechanical	ALL	024-27208-000
	—	2		3					
28	2	—	Wye-Delta	1		RELAYS	Relay, Control (1CR, 3CR)	ALL	024-25598-000
	2	—		2			(2CR, 4CR)		
	—	2		3			(1CR, 3CR)		
	—	—		—			—		
29	1	—		1			Relay, Control Timer (1TR)	ALL	024-25597-000
	1	—		2			(2TR)		
	—	1		3			(1TR)		
	—	—		—			—		
30	6	—		1		RESISTORS	Resistor, Compressor Start	ALL	See Page 11
31	6	—		2				ALL	
32	—	6		3				ALL	
33 ²	1	—		1		RESISTOR PROGRAM	Resistor Program	ALL	
34 ²	1	—		2				ALL	
35 ²	—	1		3				ALL	
33 ²	1	—	Across-the Line	1				ALL	
34 ²	1	—		2				ALL	
35 ²	—	1		3				ALL	
35 ²	—	—		—				ALL	

NOTES:

- ^s = Recommended Stock Spare Parts
² = Not Shown. Shipped Loose for Field Installation.

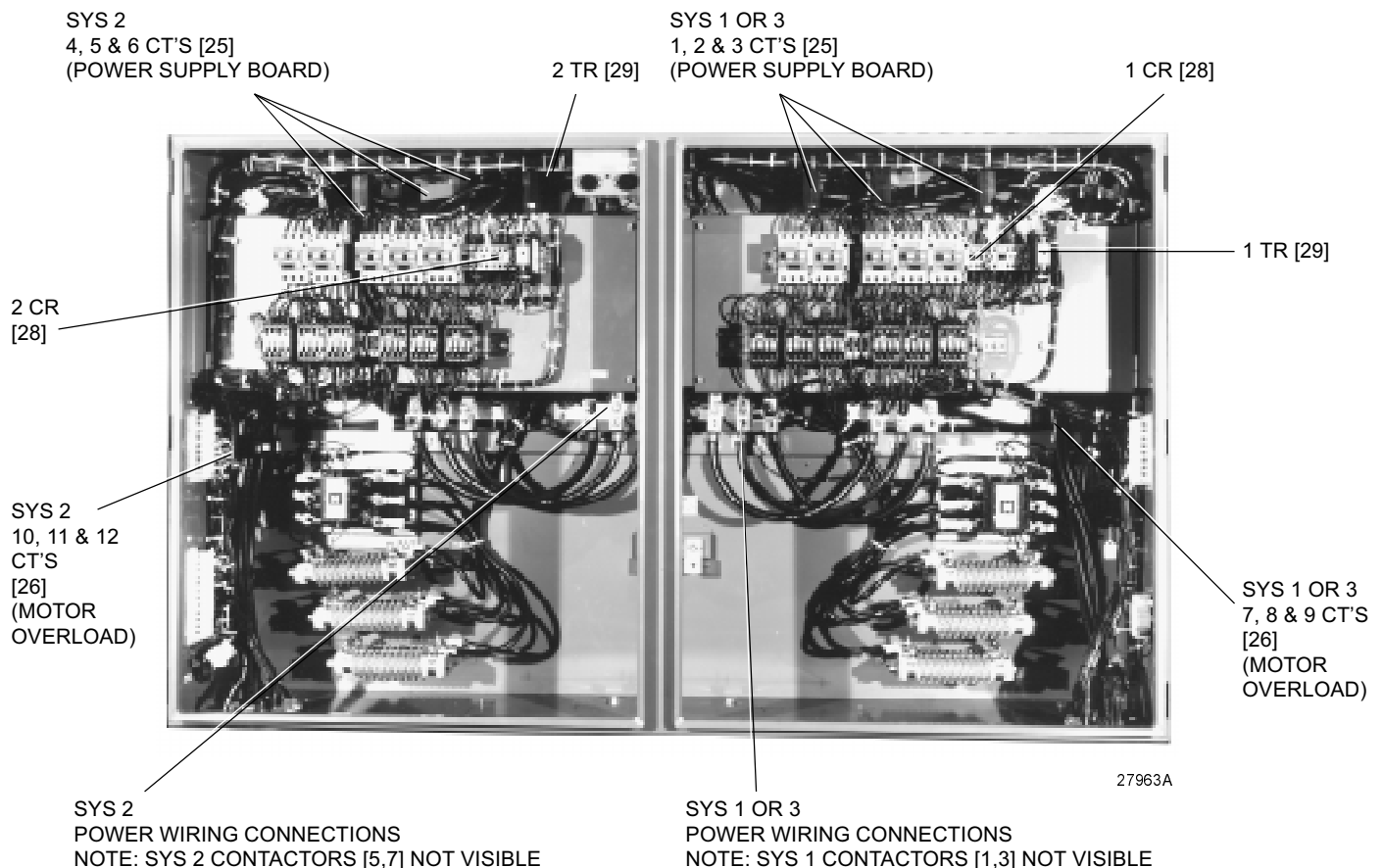
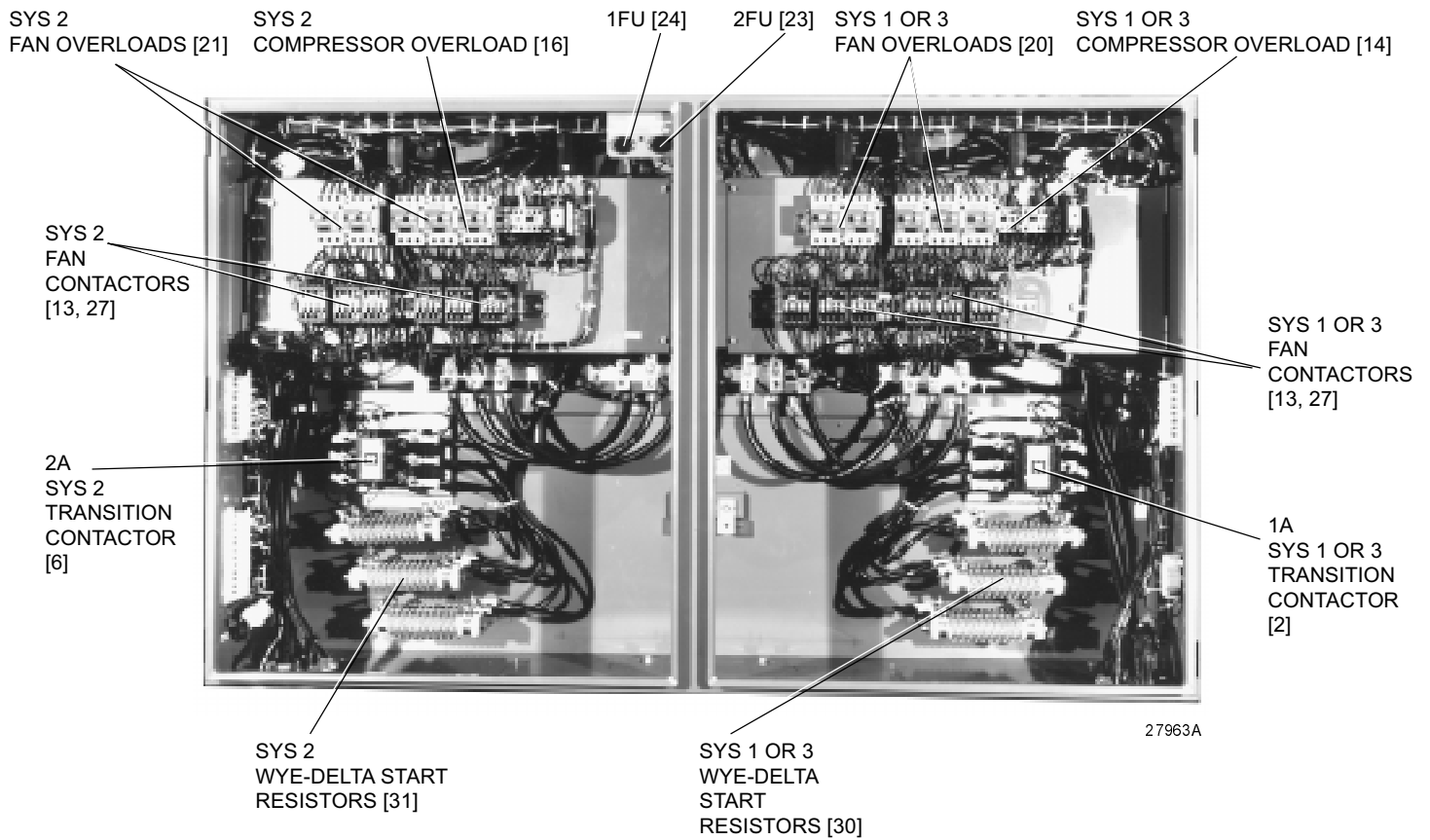


FIG. 3

RESISTORS AND RESISTOR PROGRAMS

ITEM NO.	COMPONENT	TYPE START	VOLT CODE	SYS	UNIT MODEL			
					YCAS310	YCAS340	YCAS360	YCAS380
30A	Resistor	Wye-Delta	-17	1	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE
31A				2				
32A				3				
30B			-28	1				
31B				2				
32B				3				
30C			-40	1	025-30427-000	025-30427-000	025-30427-000	025-30426-000
31C				2	025-30427-000	025-30427-000	025-30427-000	025-30426-000
32C				3	025-30427-000	025-30427-000	025-30427-000	025-30426-000
30D			-46	1	025-30428-000	025-30428-000	025-30428-000	025-30428-000
31D				2	025-30428-000	025-30428-000	025-30428-000	025-30428-000
32D				3	025-30428-000	025-30428-000	025-30428-000	025-30428-000
30E			-58	1	025-30429-000	025-30429-000	025-30429-000	025-30429-000
31E				2	025-31747-000	025-31747-000	025-30429-000	025-30429-000
32E				3	025-31747-000	025-30429-000	025-30429-000	025-30429-000
33A	Resistor Program	Wye-Delta	-17	1	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE
34A				2				
35A				3				
33B			-28	1				
34B				2				
35B				3				
33C			-40	1	031-01459-095	031-01459-095	031-01459-095	031-01459-092
34C				2	031-01459-089	031-01459-089	031-01459-095	031-01459-092
35C				3	031-01459-089	031-01459-095	031-01459-095	031-01459-092
33D			-46	1	031-01459-096	031-01459-096	031-01459-096	031-01459-093
34D				2	031-01459-091	031-01459-091	031-01459-096	031-01459-093
35D				3	031-01459-091	031-01459-096	031-01459-096	031-01459-093
33E			-58	1	031-01459-097	031-01459-097	031-01459-097	031-01459-094
34E				2	031-01459-090	031-01459-090	031-01459-097	031-01459-094
35E				3	031-01459-090	031-01459-097	031-01459-097	031-01459-094
33F		Across-the-Line	-40	1	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE
34F				2				
35F				3				
33G			-46	1	031-01459-049	031-01459-049	031-01459-049	031-01459-049
34G				2	031-01459-104	031-01459-104	031-01459-049	031-01459-049
35G				3	031-01459-104	031-01459-049	031-01459-049	031-01459-049
33H			-58	1	031-01459-107	031-01459-107	031-01459-107	031-01459-106
34H				2	031-01459-105	031-01459-105	031-01459-107	031-01459-106
35H				3	031-01459-105	031-01459-107	031-01459-107	031-01459-106

COMPRESSOR MOTOR CONTACTORS AND OVERLOADS

UNIT MODEL	SYSTEM	CONTACTOR/OVERLOAD		TYPE START	VOLTAGE CODE				
		DESCRIPTION	ITEM		-17	-28	-40	-46	-58
YCAS310	1	Contactor	2M/1S	Y	NOT AVAILABLE	NOT AVAILABLE	024-26995-000	024-26995-000	024-26995-000
			1A	Y			024-26998-000	024-26998-000	024-26998-000
			1M	Y			024-26992-000	024-26992-000	024-26992-000
				X			NOT AVAIL.	024-27200-000	024-27200-000
		Overload	1 OL	Y			024-27276-000	024-27275-000	024-27275-000
				X			NOT AVAIL.	024-27277-000	024-27276-000
	2	Contactor	2S/4M	Y	NOT AVAILABLE	NOT AVAILABLE	024-26988-000	024-26988-000	024-26988-000
			2A	Y			024-26984-000	024-26984-000	024-26984-000
			3M	Y			024-26992-000	024-26992-000	024-26992-000
				X			NOT AVAIL.	024-27200-000	024-27200-000
		Overload	2 OL	Y			024-27276-000	024-27275-000	024-27275-000
				X			NOT AVAIL.	024-27276-000	024-27276-000
	3	Contactor	2M/1S	Y	NOT AVAILABLE	NOT AVAILABLE	024-26995-000	024-26995-000	024-26994-000
			1A	Y			024-26998-000	024-26998-000	024-26997-000
			1M	Y			024-26992-000	024-26992-000	024-26991-000
				X			NOT AVAIL.	024-27200-000	024-26992-000
		Overload	1 OL	Y			024-27276-000	024-27275-000	024-27275-000
				X			NOT AVAIL.	024-27277-000	024-27277-000
YCAS340	1	Contactor	2M/1S	Y	NOT AVAILABLE	NOT AVAILABLE	024-26995-000	024-26995-000	024-26995-000
			1A	Y			024-26998-000	024-26998-000	024-26998-000
			1M	Y			024-26992-000	024-26992-000	024-26992-000
				X			NOT AVAIL.	024-27200-000	024-27200-000
		Overload	1 OL	Y			024-27276-000	024-27275-000	024-27275-000
				X			NOT AVAIL.	024-27277-000	024-27276-000
	2	Contactor	2S/4M	Y	NOT AVAILABLE	NOT AVAILABLE	024-26988-000	024-26988-000	024-26988-000
			2A	Y			024-26984-000	024-26984-000	024-26984-000
			3M	Y			024-26992-000	024-26992-000	024-26992-000
				X			NOT AVAIL.	024-27200-000	024-27200-000
		Overload	2 OL	Y			024-27276-000	024-27275-000	024-27275-000
				X			NOT AVAIL.	024-27276-000	024-27276-000
	3	Contactor	2M/1S	Y	NOT AVAILABLE	NOT AVAILABLE	024-26995-000	024-26995-000	024-26995-000
			1A	Y			024-26998-000	024-26998-000	024-26998-000
			1M	Y			024-26992-000	024-26992-000	024-26992-000
				X			NOT AVAIL.	024-27200-000	024-27200-000
		Overload	1 OL	Y			024-27276-000	024-27276-000	024-27275-000
				X			NOT AVAIL.	024-27277-000	024-27277-000

NOTES: ^S = Recommended Stock Spare Parts; Contactors Include Suppressors.

(TABLE CONTINUED ON PAGE 13)

^sCOMPRESSOR MOTOR CONTACTORS AND OVERLOADS (Cont'd)

UNIT MODEL	SYSTEM	CONTACTOR/OVERLOAD		TYPE START	VOLTAGE CODE				
		DESCRIPTION	ITEM		-17	-28	-40	-46	-58
YCAS360	1	Contactor	2M/1S	Y	NOT AVAILABLE	NOT AVAILABLE	024-26995-000	024-26995-000	024-26995-000
			1A	Y			024-26998-000	024-26998-000	024-26998-000
			1M	Y			024-26992-000	024-26992-000	024-26992-000
				X			NOT AVAIL.	024-27200-000	024-27200-000
		Overload	1 OL	Y			024-27276-000	024-27276-000	024-27275-000
				X			NOT AVAIL.	024-27277-000	024-27277-000
	2	Contactor	2S/4M	Y	NOT AVAILABLE	NOT AVAILABLE	024-26988-000	024-26988-000	024-26988-000
			2A	Y			024-26984-000	024-26984-000	024-26984-000
			3M	Y			024-26992-000	024-26992-000	024-26992-000
				X			NOT AVAIL.	024-27200-000	024-27200-000
		Overload	2 OL	Y			024-27276-000	024-27276-000	024-27275-000
				X			NOT AVAIL.	024-27277-000	024-27276-000
	3	Contactor	2M/1S	Y	NOT AVAILABLE	NOT AVAILABLE	024-26995-000	024-26995-000	024-26995-000
			1A	Y			024-26998-000	024-26998-000	024-26998-000
			1M	Y			024-26992-000	024-26992-000	024-26992-000
				X			NOT AVAIL.	024-27200-000	024-27200-000
		Overload	1 OL	Y			024-27276-000	024-27276-000	024-27275-000
				X			NOT AVAIL.	024-27277-000	024-27277-000
YCAS380	1	Contactor	2M/1S	Y	NOT AVAILABLE	NOT AVAILABLE	024-26996-000	024-26995-000	024-26995-000
			1A	Y			024-26999-000	024-26998-000	024-26998-000
			1M	Y			024-27200-000	024-26992-000	024-26992-000
				X			NOT AVAIL.	024-27200-000	024-27200-000
		Overload	1 OL	Y			024-27277-000	024-27276-000	024-27276-000
				X			NOT AVAIL.	024-27277-000	024-27277-000
	2	Contactor	2S/4M	Y	NOT AVAILABLE	NOT AVAILABLE	024-26989-000	024-26988-000	024-26988-000
			2A	Y			024-26985-000	024-26984-000	024-26984-000
			3M	Y			024-27200-000	024-26992-000	024-26992-000
				X			NOT AVAIL.	024-27200-000	024-27200-000
		Overload	2 OL	Y			024-27277-000	024-27276-000	024-27276-000
				X			NOT AVAIL.	024-27277-000	024-27277-000
	3	Contactor	2M/1S	Y	NOT AVAILABLE	NOT AVAILABLE	024-26996-000	024-26995-000	024-26995-000
			1A	Y			024-26999-000	024-26998-000	024-26998-000
			1M	Y			024-27200-000	024-26992-000	024-26992-000
				X			NOT AVAIL.	024-27200-000	024-27200-000
		Overload	1 OL	Y			024-27277-000	024-27276-000	024-27276-000
				X			NOT AVAIL.	024-27277-000	024-27277-000

NOTES: ^s = Recommended Stock Spare Parts; Contactors Include Suppressors.

MASTER CONTROL PANEL (See Figures 1 and 2)

ITEM	QTY/UNIT	DESCRIPTION	PART NO.	NOTE	NOTES
1	1	Electronic Panel Enclosure Kit	371-01307-301		1. Not Shown. Sensor Harness without Sensor. 2. Not Shown. Shipped Loose for Field use to place across the coil of any relay or contactor connected to the Control Panel or its 115VAC Power Supply, including the application of: • Alarm Circuit Relays • Pump Starter (Contactor or Pilot Relay) • Flow Switch Inputs • BAS Inputs 3. See Fig. 4 below. ^s Recommended Stock Spare Part
^s 2	1	Control, Micro Board	031-01095-002		
^s 3	1	Control, Power Supply	031-01348-000		
^s 4	1	Control, Relay Board	031-01093-000		
5	1	Transformer, Control (2T)	025-27911-000		
6	16	Block, Terminal	025-20945-000		
7	1	End, Terminal Block	025-20946-000		
8	1	Strip, Marker	025-30443-000		
9	2	Catch, Magnetic	029-20878-000		
10	5	Scr., Tap TH. #8 x 3/8 Lg	021-13783-000		
11	30	Nut, Expansion	021-14661-000		
12	30	Scr., Tap Pan Hd. #8 x 1-1/4	021-14667-000		
13	6	Lock Washer, TH. Int. 3/8	021-01155-000		
14	6	Nut, Hex 3/8-16 UNC-2B	021-00467-000		
16	15	Nut/Washer Assembly (KEPS)	021-18024-000		
17	6	Hsg., Connr. Plug, Mini-Univ.	025-28383-000		
18	1	Connector, Cable, Str. 3/4	025-09389-000		
19	17	Scr., Tap, Pan Hd. #10 x 1/2	021-13789-000		
20	4	Lock Washer, Hel. Spg. #4	021-17576-000		
21	4	Nut, Hex #4-40	021-10056-000		
22	1	Switch, Unit ON/OFF	024-25517-000		
23	1	Display	031-01110-000		
24	1	Ribbon Cable	031-01109-211		
25	4	Ribbon Cable	031-01109-212		
26	1	Ribbon Cable	031-01109-213		
27	3	Clamp, Ribbon Wire	025-25156-000		
28	1	Switch, Keypad	024-26143-000		
29	4	Spacer, Nylon 7/16 Lg.	021-17575-000		
30	1	Harness, Hinged Panel Wiring	571-01226-211		
31	1	Harness, Main Panel Wiring	571-01307-201		
32	1	Harness, Sensor - Suct. Pres. #1	371-01733-231	1	
33	1	Harness, Sensor - Oil Pres. #1	371-01733-233	1	
34	1	Harness, Sensor - Suct. Pres. #2	371-01733-232	1	
35	1	Harness, Sensor - Oil Pres. #2	371-01733-234	1	
36	1	Harness, Sensor - LWT	371-01733-246	1	
37	1	Harness, Sensor - EWT	371-01733-247	1	
38	1	Harness, Sensor - OAT	371-01733-248	1	
39	2	Strap, Cable	025-18167-000		
^s 40	1	Control, I/O Expansion Board	031-01344-000		
41	1	Label, Caution	035-03908-000		
^s 42	1	EPROM	031-01714-103		
43	1	Harness, Hinged Panel Wiring	571-01226-212		
44	1	Control Relay, SS Output Board	031-01369-000		
45	2	Housing, Connector Plug	025-28382-000		
46	1	Jumper, Control Relay Board	571-01307-211		
47	1	Mount, Cable Strap	025-25155-000		
48	1	Harness, Sensor - Disch. Pres. #1	371-01733-235	1	
49	1	Harness, Sensor - Disch. Pres. #2	371-01733-236	1	
50	1	Harness, Sensor - Suct. Temp. #1	371-01733-241	1	
51	1	Harness, Sensor - Suct. Temp. #2	371-01733-242	1	
52	1	Harness, Sensor - Disch. Temp. #1	371-01733-243	1	
53	1	Harness, Sensor - Disch. Temp. #2	371-01733-244	1	
54	1	Connector, Cable	025-12282-000		
55	1	Label, Caution	035-11929-000		
57	1	Harness, Sensor - Oil Temp. #1	371-01733-221	1	
58	1	Harness, Sensor - Oil Temp. #2	371-01733-222	1	
59	1	Cable, Ribbon	031-01109-214		
60	3	Cable Strap	025-11098-000		
61	3	Suppressor for Options	031-00808-000	2	
62	1	LAN Transient Protector	031-01586-000	3	

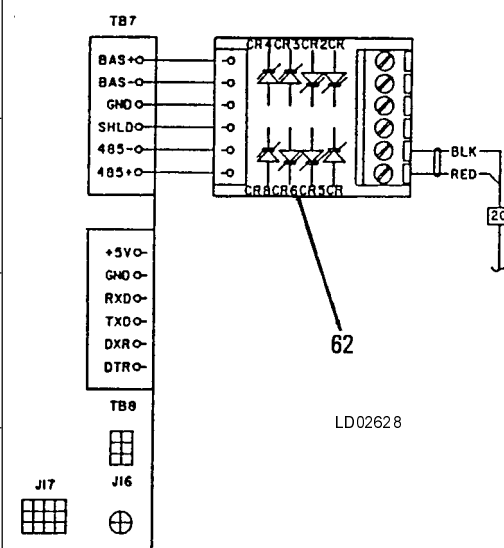
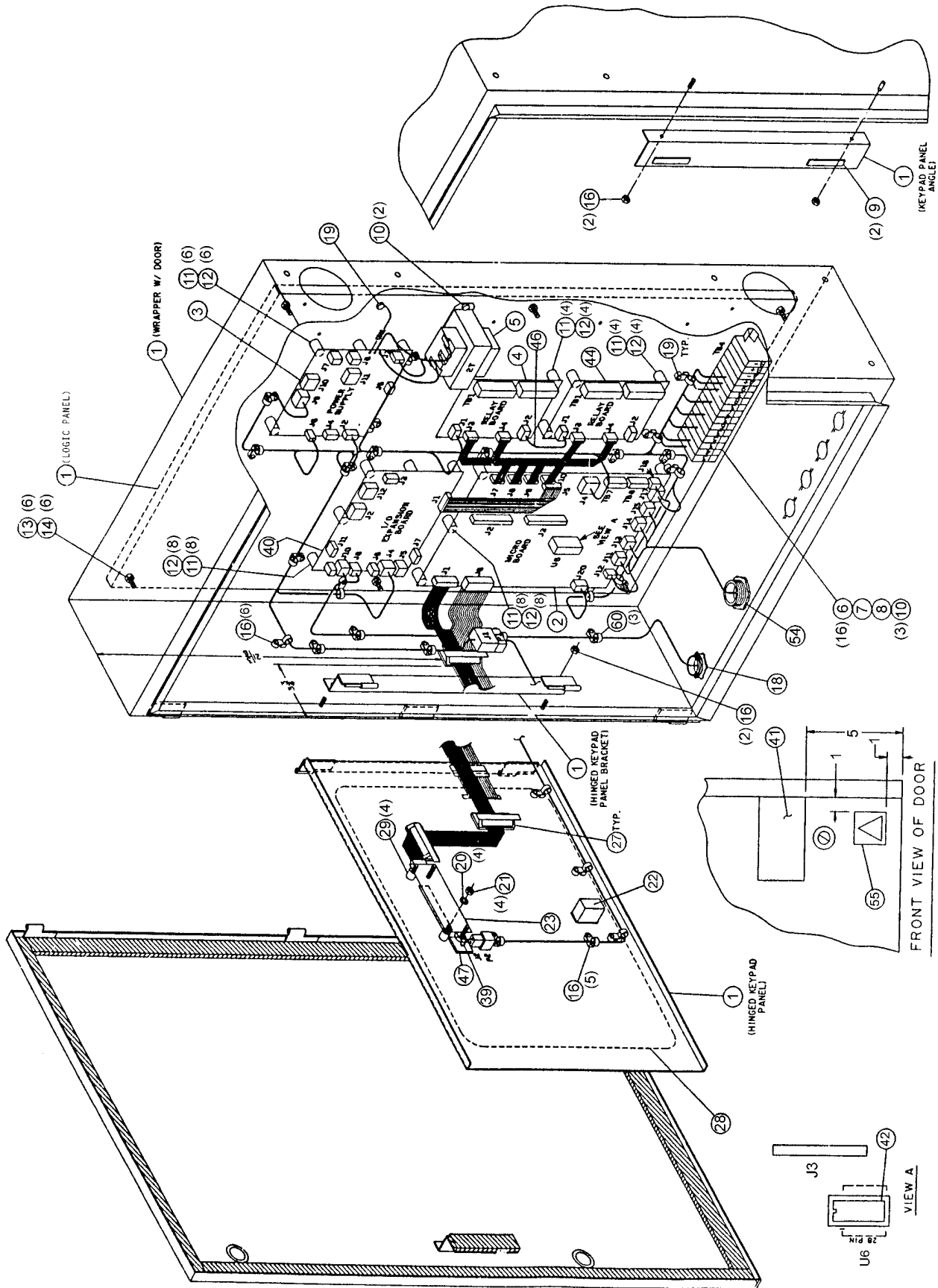


FIG. 4 – LAN TRANSIENT PROTECTOR



LD00538

FIG. 5 - CONTROL PANEL, BOX (MASTER)

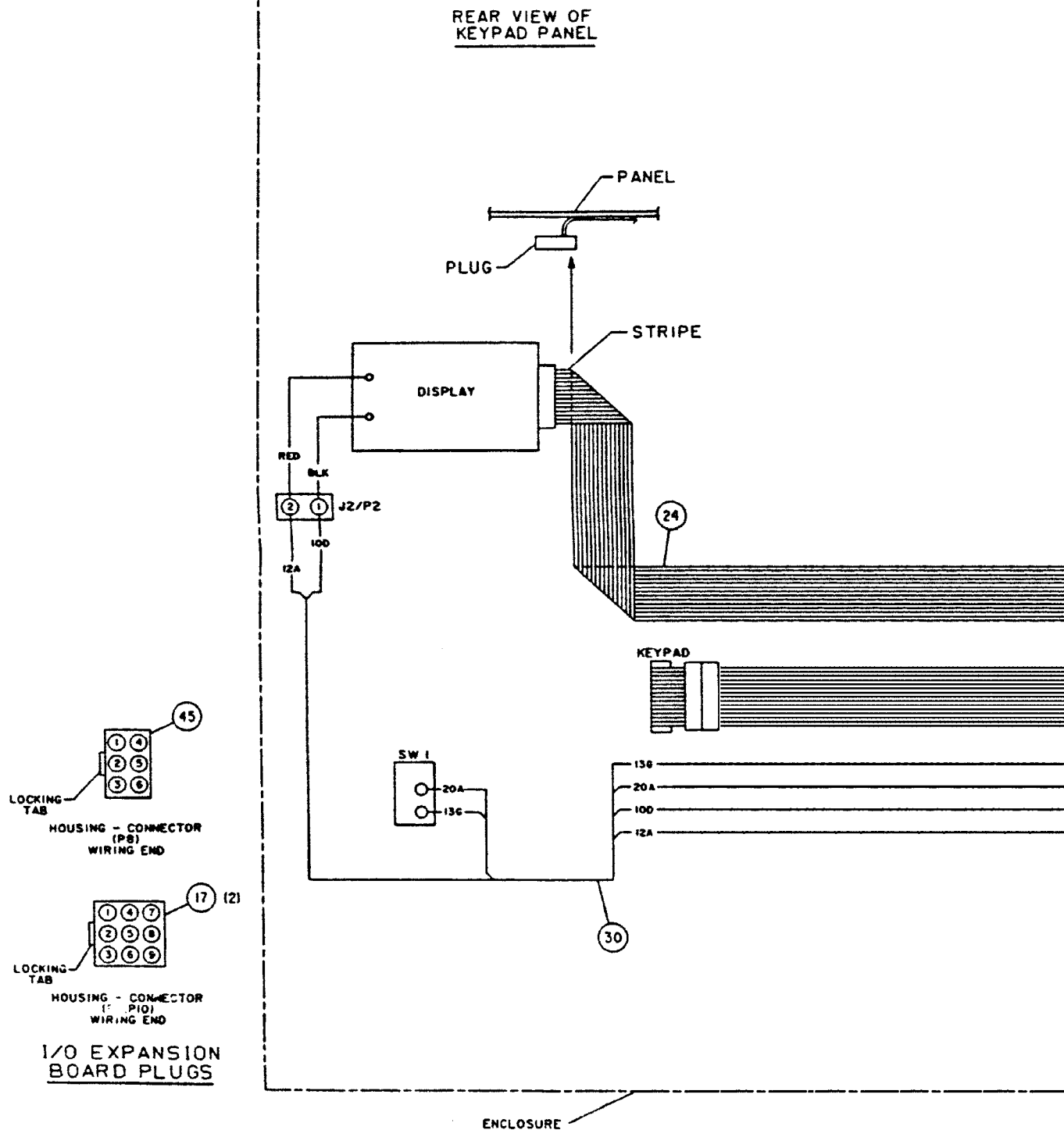
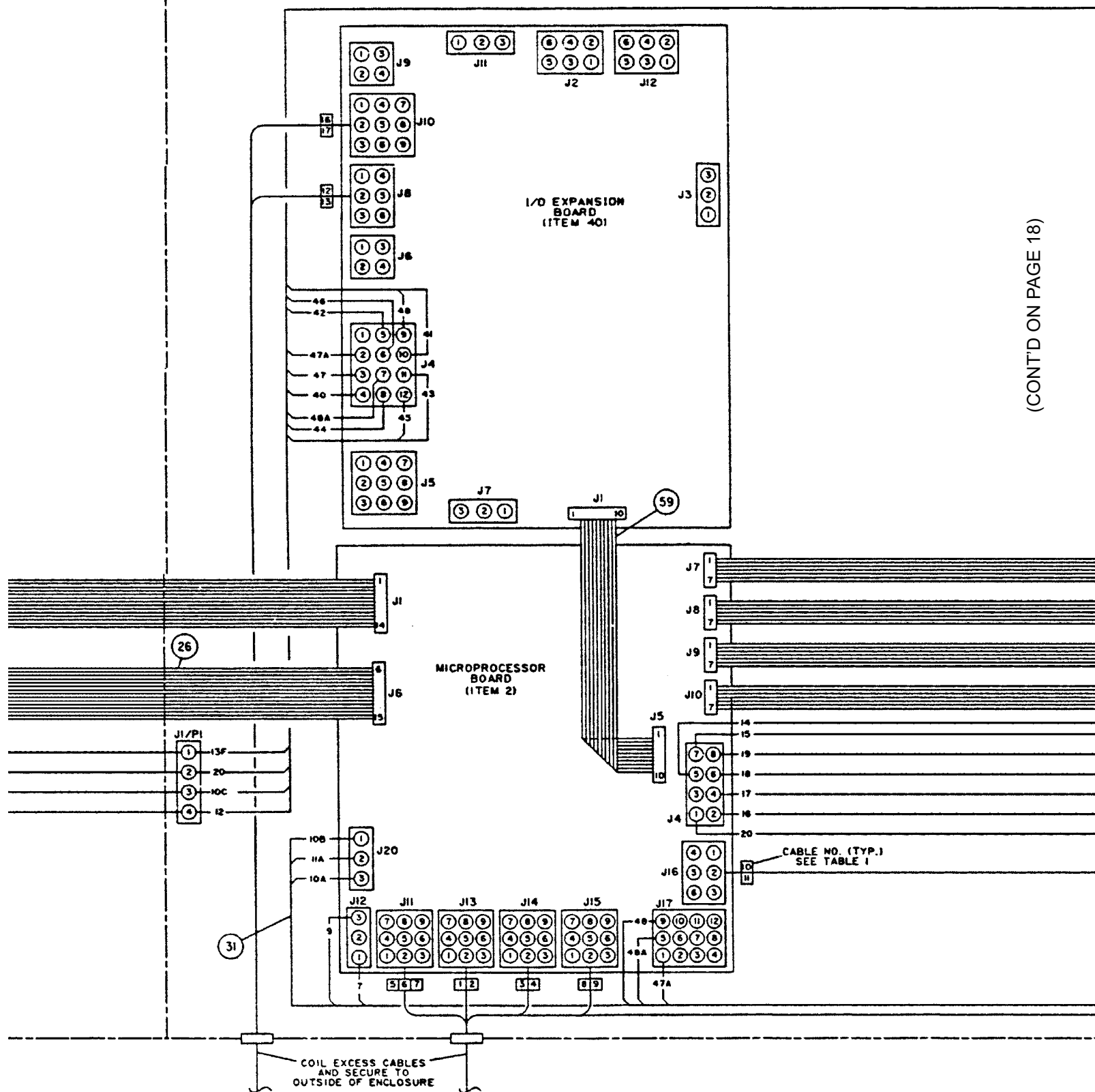


FIG. 6 – MASTER CONTROL PANEL CONNECTION DIAGRAM

(CONT'D ON PAGE 18)

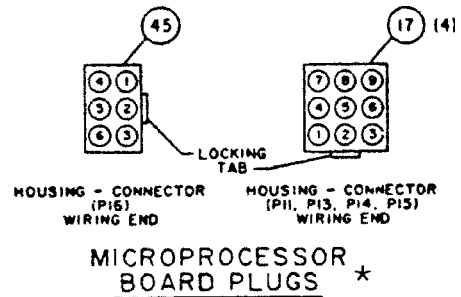


CONNECTION DIAGRAM

FRONT VIEW OF LOGIC PANEL

(CONT'D FROM PAGE 17)

BOARD PLUG NO.	CABLE ITEM NO.	CABLE NO.	WIRE COLOR	PLUG PIN NO.	FUNCTION
MICRO P13	32	1	RED	4	SYS 1 SUCTION PRESSURE
			BLK	1	
			WHT	7	
			DRAIN	2	
	33	2	RED	5	SYS 1 SUCTION PRESSURE
			BLK	3	
			WHT	8	
			DRAIN	9	
MICRO P14	34	3	RED	4	SYS 2 SUCTION PRESSURE
			BLK	1	
			WHT	7	
			DRAIN	2	
	35	4	RED	5	SYS 2 OIL PRESSURE
			BLK	3	
			WHT	8	
			DRAIN	9	
MICRO P11	34	5	RED	7	LEAVING CHILLED WATER
			BLK	4	
			DRAIN	1	
	37	6	RED	8	ENTERING CHILLED WATER
			WHT	5	
			DRAIN	2	
	38	7	RED	9	OUTSIDE AIR TEMP.
			BLK	6	
			DRAIN	3	
MICRO P15	49	9	RED	4	SYS 2 DISCH. PRESSURE
			BLK	1	
			WHT	7	
			DRAIN	2	
	49	8	RED	5	SYS 1 DISCH. PRESSURE
			BLK	3	
MICRO P16	50	10	RED	5	SYS 1 SUCTION TEMP.
			BLK	6	
			DRAIN	1	
	51	11	RED	2	SYS 2 SUCTION TEMP.
			BLK	4	
I/O P10	57	16	RED	4	SYS 1 OIL TEMP.
			BLK	7	
			DRAIN	3	
	58	17	RED	5	SYS 2 OIL TEMP.
			BLK	4	
I/O P8	52	12	RED	2	SYS 1 DISCH. TEMP.
			BLK	4	
			DRAIN	1	
	53	13	RED	5	SYS 2 DISCH. TEMP.
			BLK	6	
			DRAIN	3	



* SEE NOTE 3, PAGE 8

LD02671

SUBORDINATE CONTROL PANEL (See Figures 7, 8, & 9)

ITEM	QTY/UNIT	DESCRIPTION	PART NO.	NOTE	NOTES
1	1	Electronic Panel Enclosure Kit	371-02019-301		1. Not Shown. Sensor Harness without Sensor. 2. Not Shown. Shipped Loose for Field use to place across the coil of any relay or contactor connected to the Control Panel or its 115VAC Power Supply, including the application of: • Alarm Circuit Relays • Pump Starter (Contactor or Pilot Relay) • Flow Switch Inputs • BAS Inputs
^s 2	1	Control, Micro Board	031-01095-002		
^s 3	1	Control, Power Supply	031-01348-000		
^s 4	1	Control, Relay Board	031-01093-000		
5	1	Transformer, Control (2T)	025-27911-000		
6	16	Block, Terminal	025-20945-000		
7	1	End, Terminal Block	025-20946-000		
8	1	Strip, Marker	025-30443-000		
9	1	Hsg., Connr. Elect. Plug	025-21417-000		
10	5	Scr., Tap TH. #8 x 3/8 Lg	021-13783-000		
11	30	Nut, Expansion	021-14661-000		3. See Fig. 7 below. ^s Recommended Stock Spare Part
12	30	Scr., Tap Pan Hd. #8 x 1-1/4	021-14667-000		
13	6	Lock Washer, TH. Int. 3/8	021-01155-000		
14	6	Nut, Hex 3/8-16 UNC-2B	021-00467-000		
15	1	Harness, Hinged Panel Wiring	571-01226-213		
16	8	Nut/Washer Assembly (KEPS)	021-18024-000		
17	4	Hsg., Connr. Plug, Mini-Univ.	025-28383-000		
18	1	Connector, Cable, Str. 3/4	025-09389-000		
19	17	Scr., Tap, Pan Hd. #10 x 1/2	021-13789-000		
25	4	Ribbon Cable	031-01109-212		
31	1	Harness, Main Panel Wiring	571-01307-201		1 1
32	1	Harness, Sensor - Suct. Pres. #3	371-02019-231		
33	1	Harness, Sensor - Oil Pres. #3	371-02019-233		
^s 40	1	Control, I/O Expansion Board	031-01344-000		
41	1	Label, Caution	035-03908-000		
^s 42	1	EPROM	031-01714-105		
43	1	Harness, Hinged Panel Wiring	571-01226-212		
44	1	Control Relay, SS Output Board	031-01369-000		
45	2	Housing, Connector Plug	025-28382-000		
46	1	Jumper, Control Relay Board	571-01307-211		
48	1	Harness, Sensor - Disch. Pres. #3	371-02019-235	1	1 1 1
50	1	Harness, Sensor - Suct. Temp. #3	371-02019-241		
52	1	Harness, Sensor - Disch. Temp. #3	371-02019-243		
54	1	Connector, Cable	025-12282-000		
55	1	Label, Caution	035-11929-000		
57	1	Harness, Sensor - Oil Temp. #3	371-02019-221	1	1 2 3
59	1	Cable, Ribbon	031-01109-214		
60	3	Cable Strap	025-11098-000		
61	3	Suppressor for Options	031-00808-000		
62	1	LAN Transient Protector	031-01586-000		

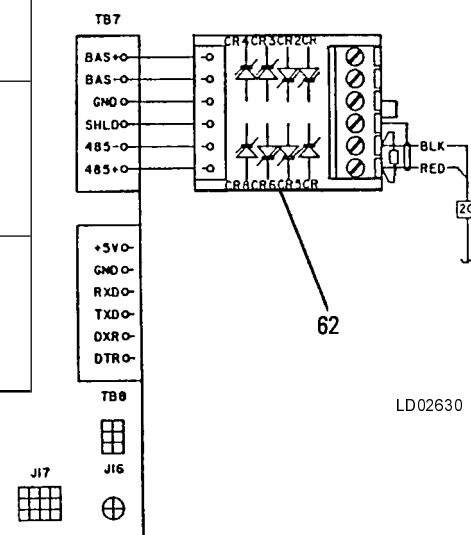


FIG. 7 – LAN TRANSIENT PROTECTOR

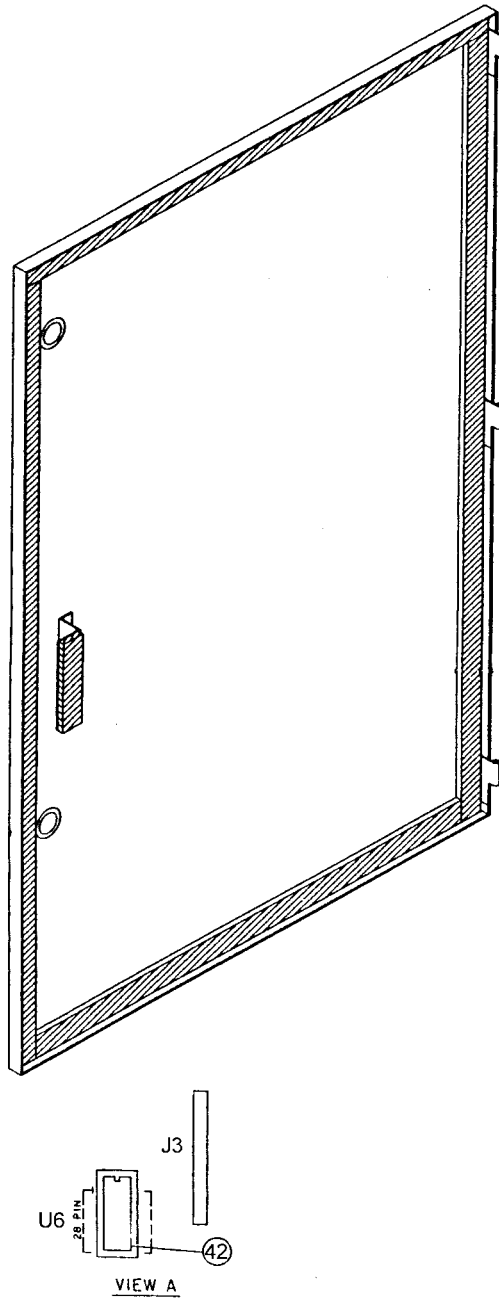
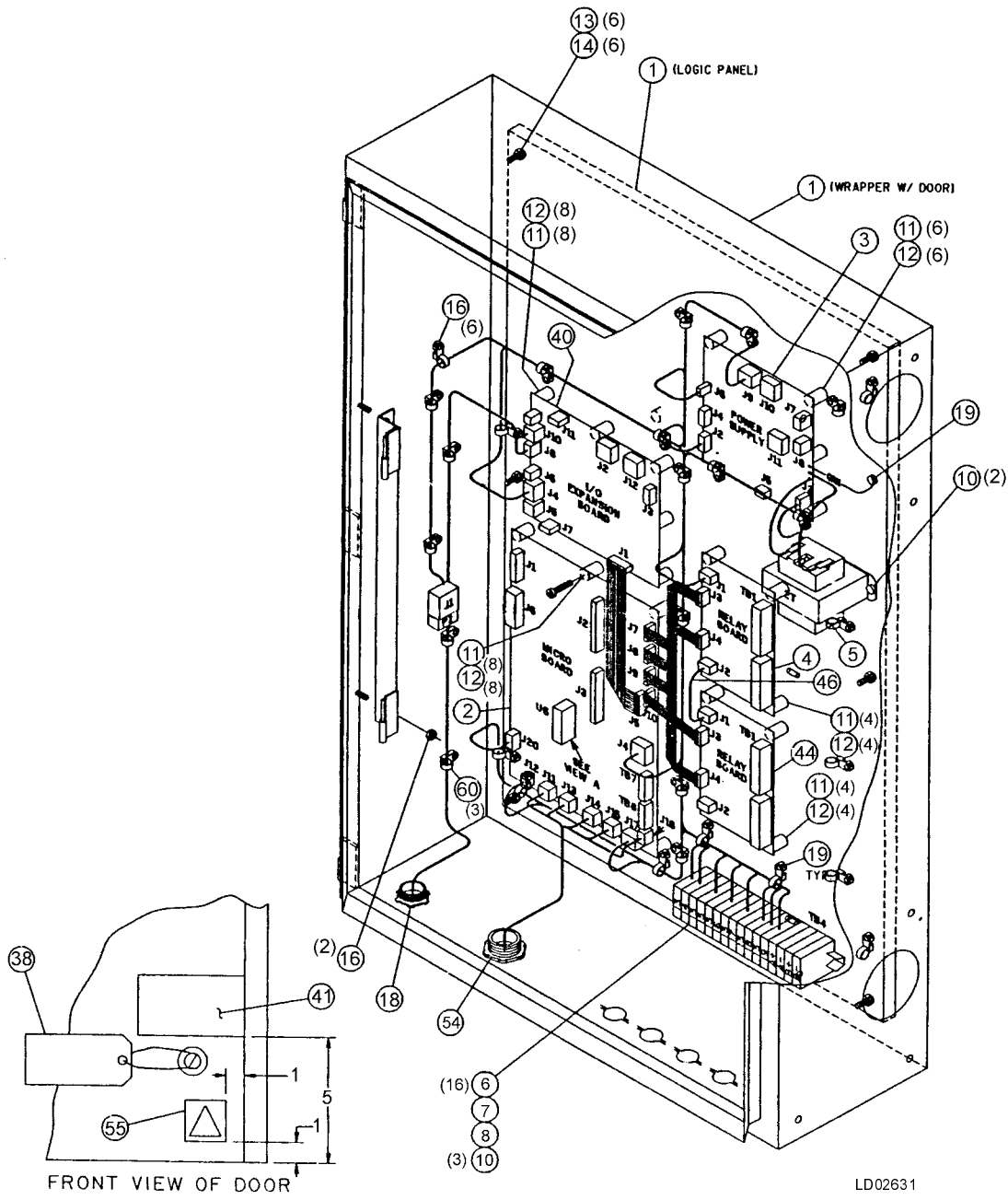


FIG. 8 – CONTROL PANEL, BOX (SUBORDINATE)



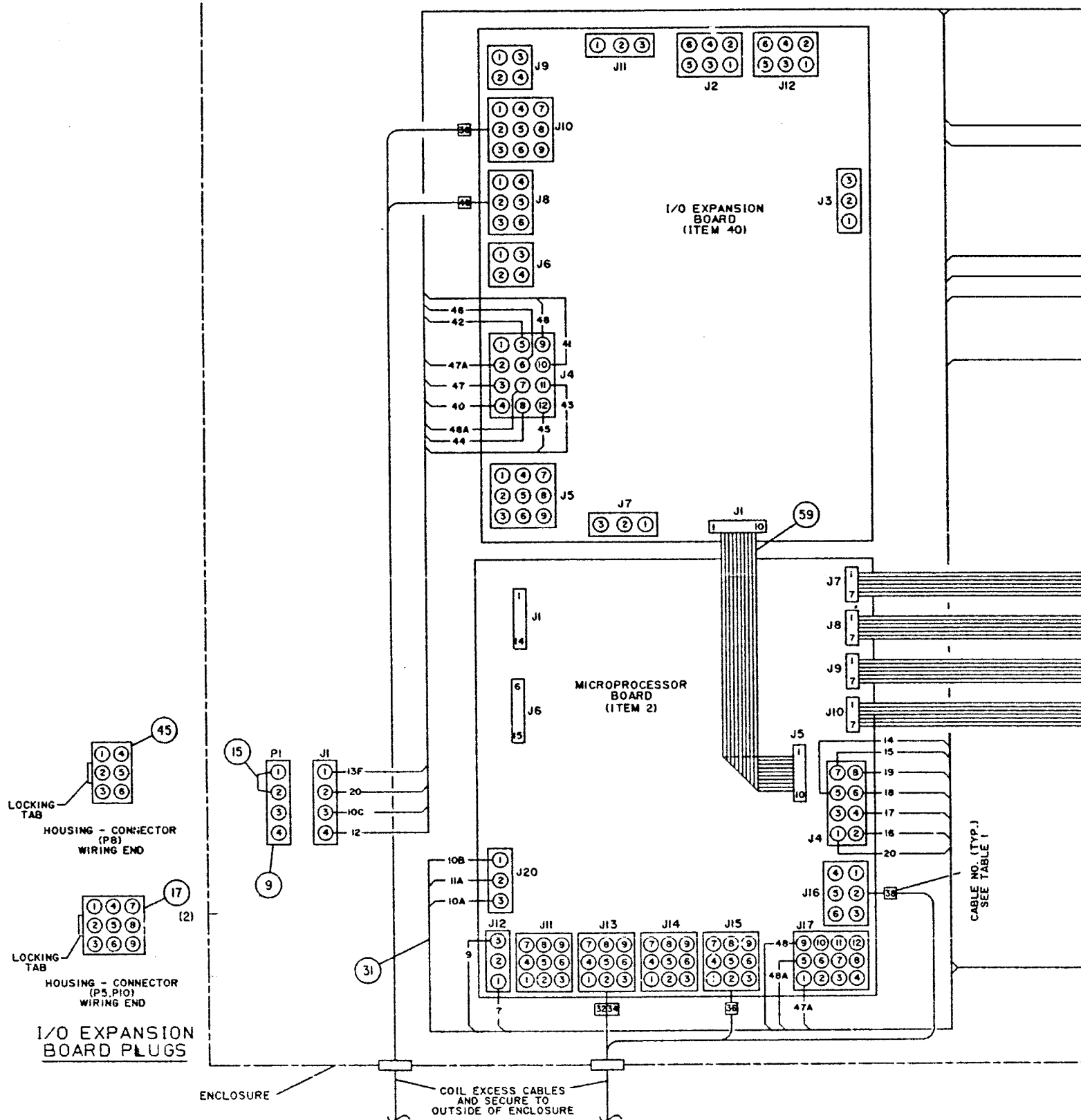
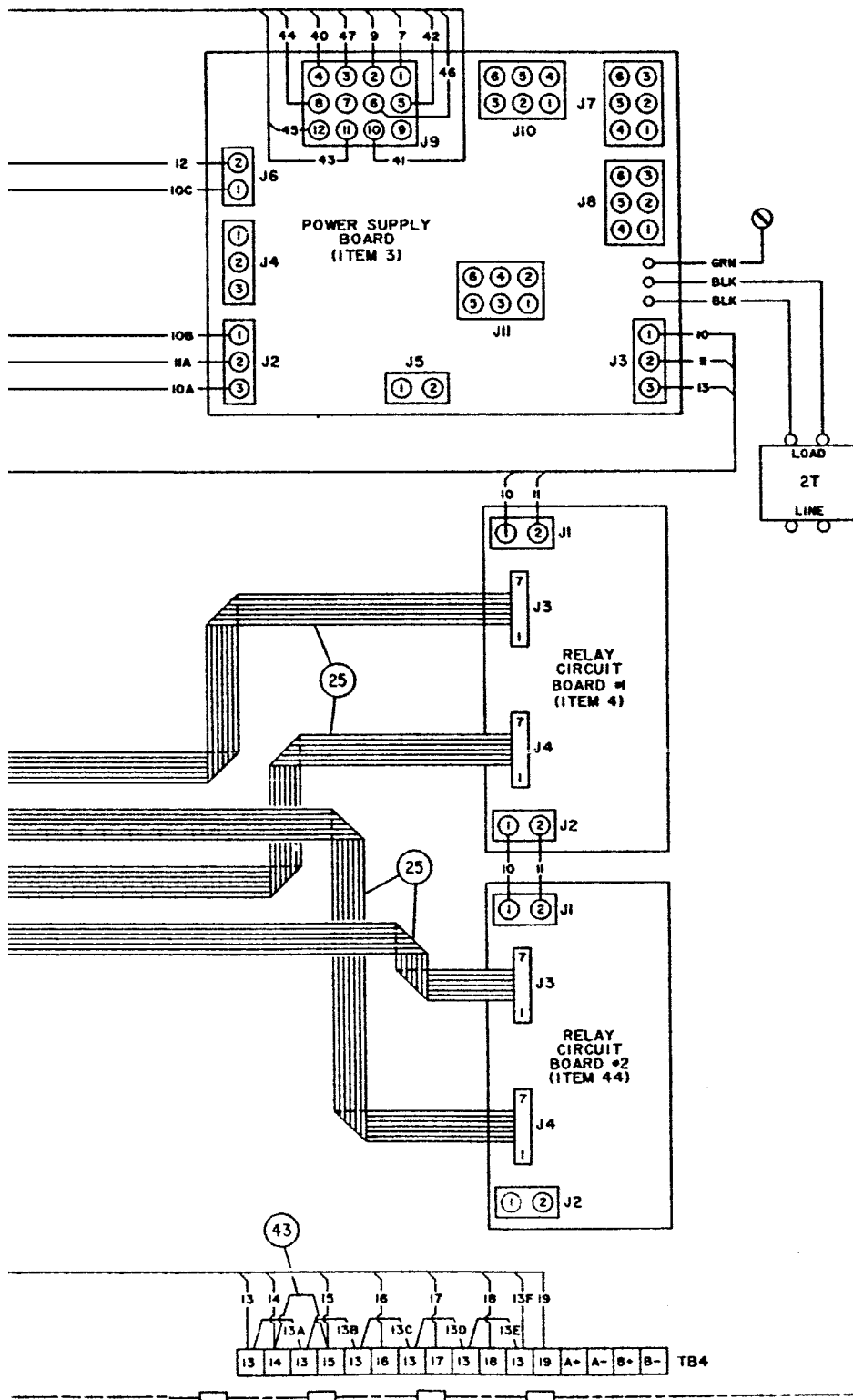
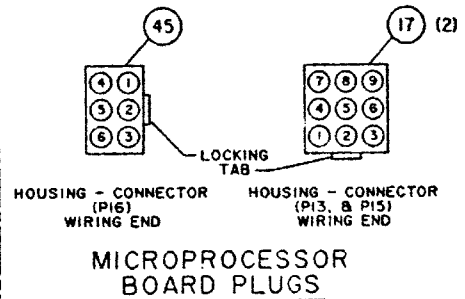


FIG. 9 - SUBORDINATE CONTROL PANEL, CONNECTION

FRONT VIEW OF LOGIC PANEL



BOARD PLUG NO.	CABLE ITEM NO.	CABLE NO.	WIRE COLOR	PLUG PIN NO.	FUNCTION
MICRO P13	32	32	RED	4	SYS 3 SUCTION PRESSURE
			BLK	1	
			WHT	7	
			DRAIN	2	
MICRO P15	33	34	RED	5	SYS 3 OIL PRESSURE
			BLK	3	
			WHT	8	
			DRAIN	9	
MICRO P16	48	36	RED	4	SYS 3 DISCH. PRESSURE
			BLK	1	
			WHT	7	
			DRAIN	2	
I/O P10	50	38	RED	5	SYS 3 SUCTION TEMP.
			BLK	6	
			DRAIN	1	
			RED	4	
I/O P8	57	30	BLK	7	SYS 3 OIL TEMP.
			DRAIN	3	
			RED	2	
			BLK	4	
I/O P8	52	40	DRAIN	1	SYS 3 DISCH. TEMP.
			RED	2	
			BLK	4	
			DRAIN	1	



LD02632

REFRIGERANT SYSTEM COMPONENTS

ITEM NO	QUANT/ UNIT	DESCRIPTION	SYS NO.	SEE FIG. NO.	UNIT MODEL			
					YCAS310	YCAS340	YCAS360	YCAS380
^s 1	1	Valve, Thermal Expansion, Cooler	1	10	025-32905-000	025-32906-000	025-32906-000	025-32906-000
^s 2	1	Complete - Includes Power Head	2		025-32905-000	025-32905-000	025-32906-000	025-32906-000
^s 3	1		3		025-32905-000	025-32906-000	025-32906-000	025-32906-000
4	1	Power Head, TXV	1	10	025-32902-000	025-32837-000	025-32837-000	025-32837-000
5	1		2		025-32902-000	025-32902-000	025-32837-000	025-32837-000
6	1		3		025-32902-000	025-32837-000	025-32837-000	025-32837-000
7	1	Dehydrator, Body (Replaceable Core)	1	12	026-16960-000	026-16960-000	026-16960-000	026-16960-000
8	1		2		026-16960-000	026-16960-000	026-16960-000	026-16960-000
9	1		3		026-16960-000	026-16960-000	026-16960-000	026-16960-000
^s 10	9	Dehydrator Core (Use with Items 7, 8, 9)	1, 2, 3	12	026-18328-000	026-18328-000	026-18328-000	026-18328-000
11	1	Valve, Liquid Solenoid	1	10	025-33235-000	025-33235-000	025-33235-000	025-33235-000
12	1		2		025-33235-000	025-33235-000	025-33235-000	025-33235-000
13	1		3		025-33235-000	025-33235-000	025-33235-000	025-33235-000
14	1	Moisture Indicator, Body	1	10	026-32398-000	026-32399-000	026-32399-000	026-32399-000
15	1		2		026-32398-000	026-32398-000	026-32399-000	026-32399-000
16	1		3		026-32398-000	026-32399-000	026-32399-000	026-32399-000
17	3	Moisture Indicator, Cap Assembly	1, 2, 3	10	026-32800-000	026-32800-000	026-32800-000	026-32800-000
18	3	Valve, Liquid Stop	1, 2, 3	12	022-08740-000	022-08740-000	022-08740-000	022-08740-000
19	3	Compressor	1, 2, 3	13	See Page 2			
20	1	Evaporator	—	13	See Page 25			
21	6	Valve, Solenoid, Economizer; TXV1	1, 2, 3	13	025-31771-000	025-31771-000	025-31771-000	025-31771-000
22	3	Valve, Thermal Expansion (TXV1), Economizer	1, 2, 3	13	025-32844-000	025-32844-000	025-32844-000	025-32844-000
23	3	Valve, Thermal Expansion, Motor Cooling	1, 2, 3	13	025-32845-000	025-32845-000	025-32845-000	025-32845-000
24	3	Valve, Liquid Injection, Compressor	1, 2, 3	13	025-32908-000	025-32908-000	025-32908-000	025-32908-000
25	3	Economizer	1, 2, 3	13	026-34418-000	026-34418-000	026-34418-000	026-34418-000
26	3	Valve, Relief, Oil Separator	1, 2, 3	13	022-09547-000	022-09547-000	022-09547-000	022-09547-000
27	3	Valve, Stop	1, 2, 3	14	022-01582-000	022-01582-000	022-01582-000	022-01582-000
28	6	Valve, Ball, Oil Filter Isolation	1, 2, 3	14	022-09172-000	022-09172-000	022-09172-000	022-09172-000
29	3	Oil Filter, Includes Items 29A, 30	1, 2, 3	14	026-33897-000	026-33897-000	026-33897-000	026-33897-000
29A	3	Gasket/Seal, Oil Filter	1, 2, 3	14	026-34465-000	026-34465-000	026-34465-000	026-34465-000
30	3	Element, Oil Filter	1, 2, 3	14	026-32386-000	026-32386-000	026-32386-000	026-32386-000
31	3	Valve, Solenoid, Oil Supply	1, 2, 3	14	025-28903-000	025-28903-000	025-28903-000	025-28903-000
32	3	Adaptor, Oil Supply	1, 2, 3	14	023-18241-000	023-18241-000	023-18241-000	023-18241-000
33	12	Isolator, Vibration Mount	1, 2, 3	15	026-34417-000	026-34417-000	026-34417-000	026-34417-000

^sRecommended Stock Spare Part

(TABLE CONTINUED ON PAGE 21)

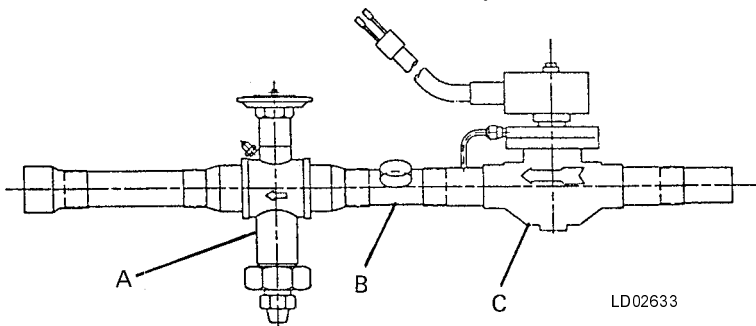
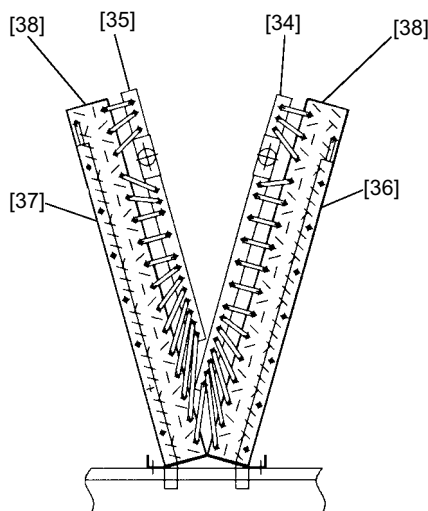


FIG. 10 – VALVE ASSEMBLY

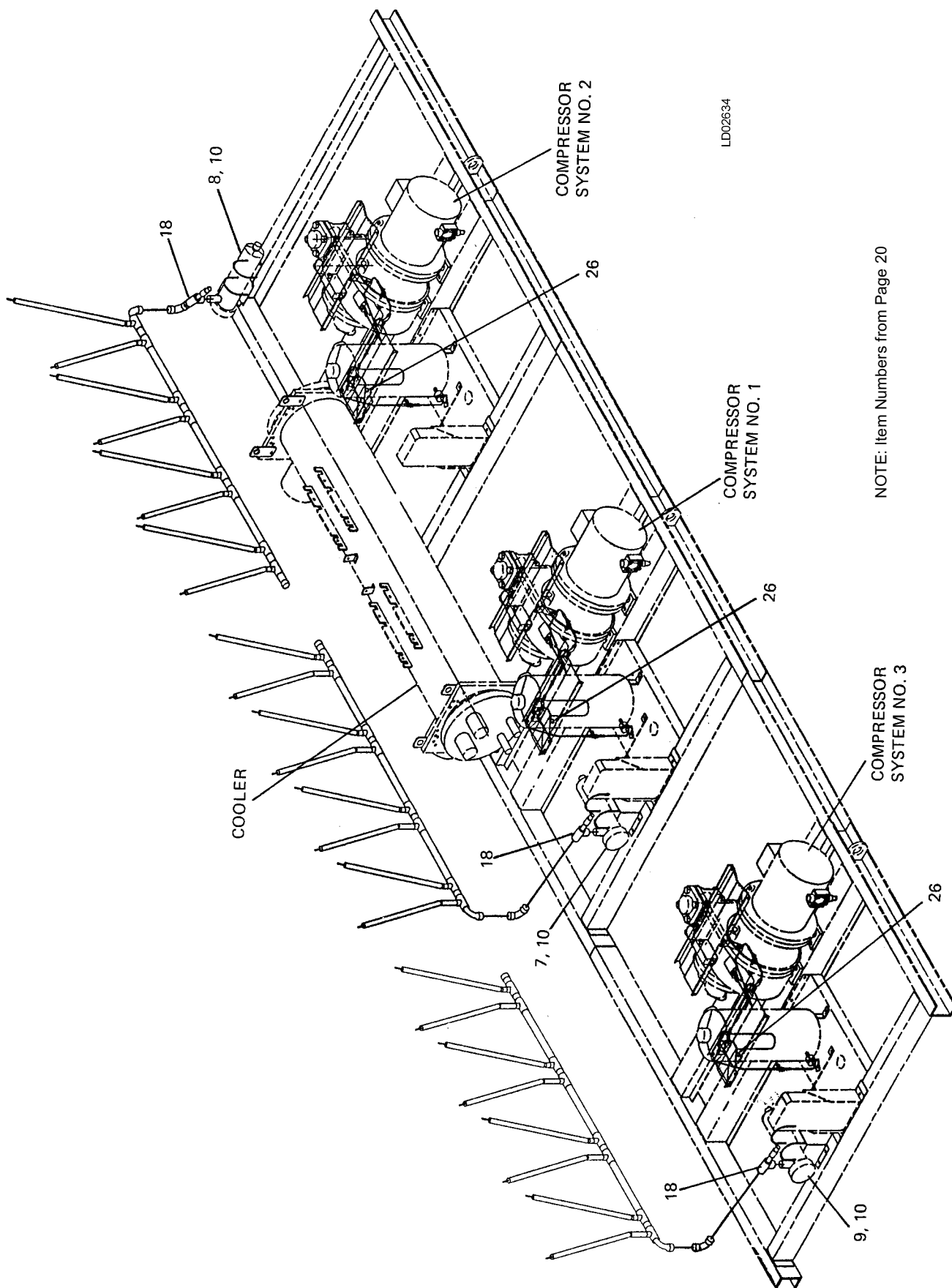
	SYSTEM	ITEM NO.
A	1	1, 4
	2	2, 5
	3	3, 6
B	1	14, 17
	2	15, 17
	3	16, 17
C	1	11
	2	12
	3	13

ITEM NO.	QUANT/ MOD	DESCRIPTION	SYS NO.	SEE FIG. NO.	UNIT MODEL			
					YCAS310	YCAS340	YCAS360	YCAS380
ALUMINUM FIN COILS – STANDARD								
34	4	Header, Discharge (R.H.)	1, 2, 3	11	375-18638-000	375-18638-000	375-18638-000	375-18638-000
35	4	Header, Discharge (L.H.)	1, 2, 3		375-18637-000	375-18637-000	375-18637-000	375-18637-000
36	4	Header, Liquid (R.H.)	1, 2, 3		375-18650-000	375-18650-000	375-18650-000	375-18650-000
37	4	Header, Liquid (L.H.)	1, 2, 3		375-18652-000	375-18652-000	375-18652-000	375-18652-000
38	8	Coil, Condenser	1, 2, 3		326-33838-000	326-33838-000	326-33838-000	326-33838-000
PHENOLIC-COATED COILS – OPTION								
34	4	Header, Discharge (R.H.)	1, 2, 3	11	375-20842-000	375-20842-000	375-20842-000	375-20842-000
35	4	Header, Discharge (L.H.)	1, 2, 3		375-20841-000	375-20841-000	375-20841-000	375-20841-000
36	4	Header, Liquid (R.H.)	1, 2, 3		375-20830-000	375-20830-000	375-20830-000	375-20830-000
37	4	Header, Liquid (L.H.)	1, 2, 3		375-20832-000	375-20832-000	375-20832-000	375-20832-000
38	8	Coil, Condenser	1, 2, 3		326-34426-000	326-34426-000	326-34426-000	326-34426-000
COPPER FIN COILS – OPTION								
34	4	Header, Discharge (R.H.)	1, 2, 3	11	375-18638-000	375-18638-000	375-18638-000	375-18638-000
35	4	Header, Discharge (L.H.)	1, 2, 3		375-18637-000	375-18637-000	375-18637-000	375-18637-000
36	4	Header, Liquid (R.H.)	1, 2, 3		375-18650-000	375-18650-000	375-18650-000	375-18650-000
37	4	Header, Liquid (L.H.)	1, 2, 3		375-18652-000	375-18652-000	375-18652-000	375-18652-000
38	8	Coil, Condenser	1, 2, 3		326-34424-000	326-34424-000	326-34424-000	326-34424-000
BLACK FIN COILS – OPTION								
34	4	Header, Discharge (R.H.)	1, 2, 3	11	375-18638-000	375-18638-000	375-18638-000	375-18638-000
35	4	Header, Discharge (L.H.)	1, 2, 3		375-18637-000	375-18637-000	375-18637-000	375-18637-000
36	4	Header, Liquid (R.H.)	1, 2, 3		375-18650-000	375-18650-000	375-18650-000	375-18650-000
37	4	Header, Liquid (L.H.)	1, 2, 3		375-18652-000	375-18652-000	375-18652-000	375-18652-000
38	8	Coil, Condenser	1, 2, 3		326-34422-000	326-34422-000	326-34422-000	326-34422-000



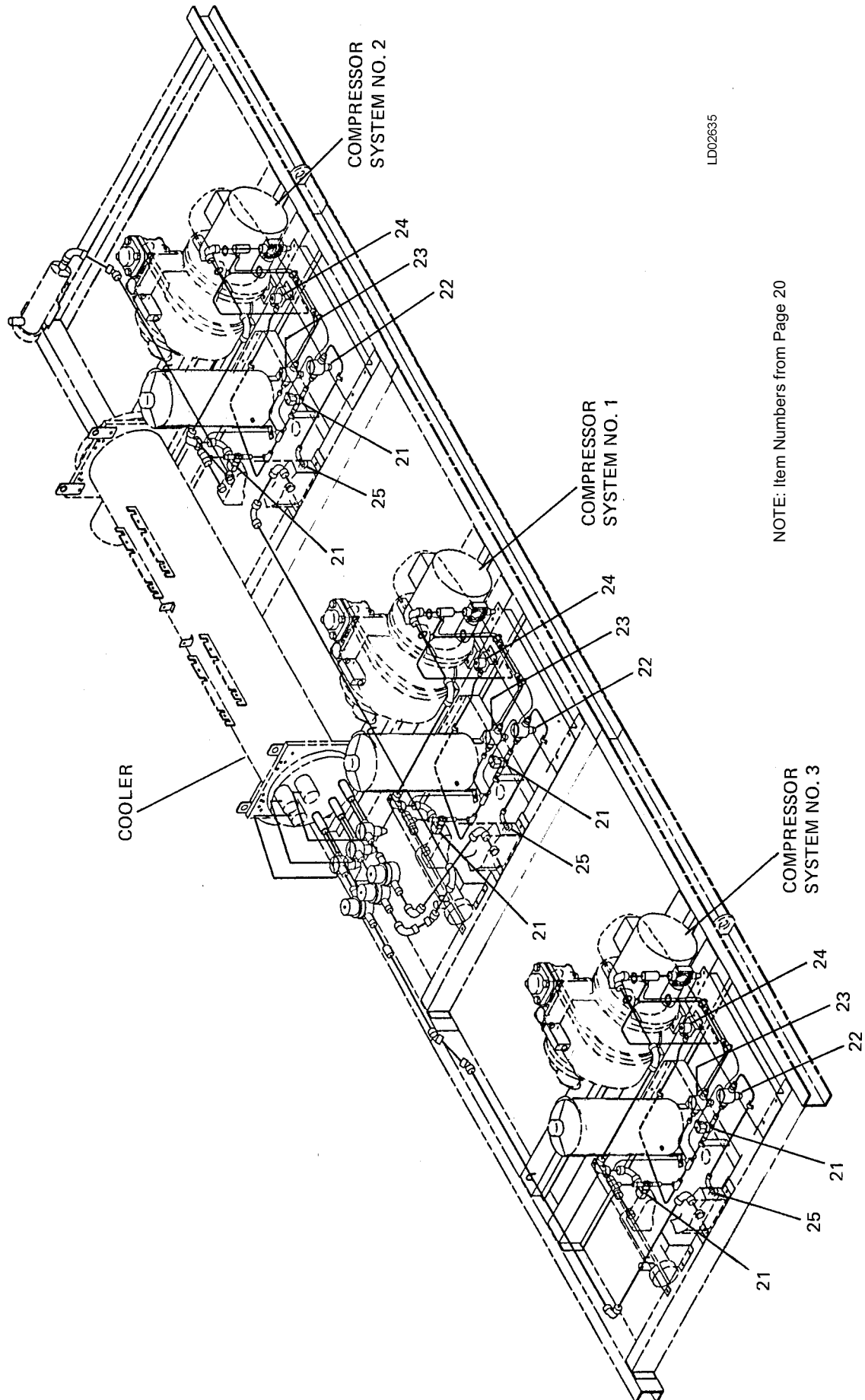
LD00235

FIG. 11 – COIL, 4-ROW (Typical)



NOTE: Item Numbers from Page 20

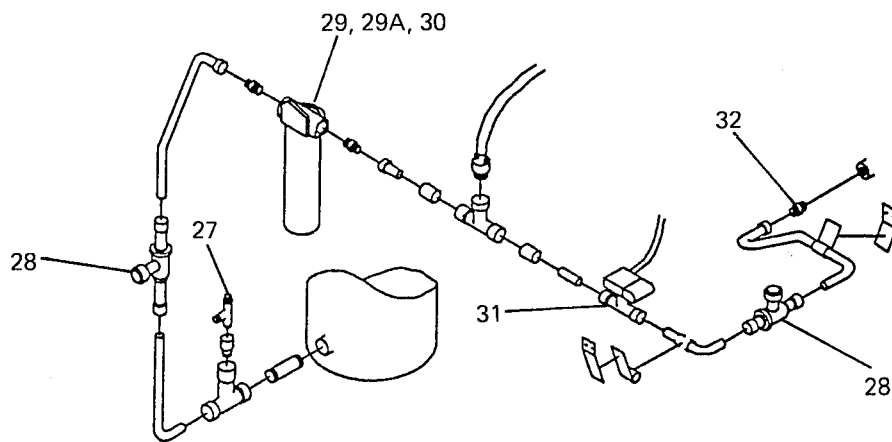
FIG. 12 – SYSTEM PIPING (Liquid Piping to Dehydrator)



LD02635

NOTE: Item Numbers from Page 20

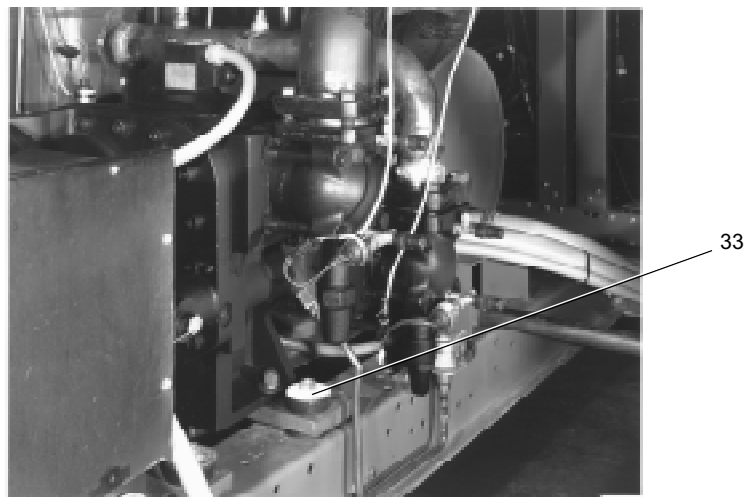
FIG. 13 – SYSTEM PIPING (Liquid Piping from Dehydrators to Cooler)



LD02636

NOTE: Item Number from Page 20

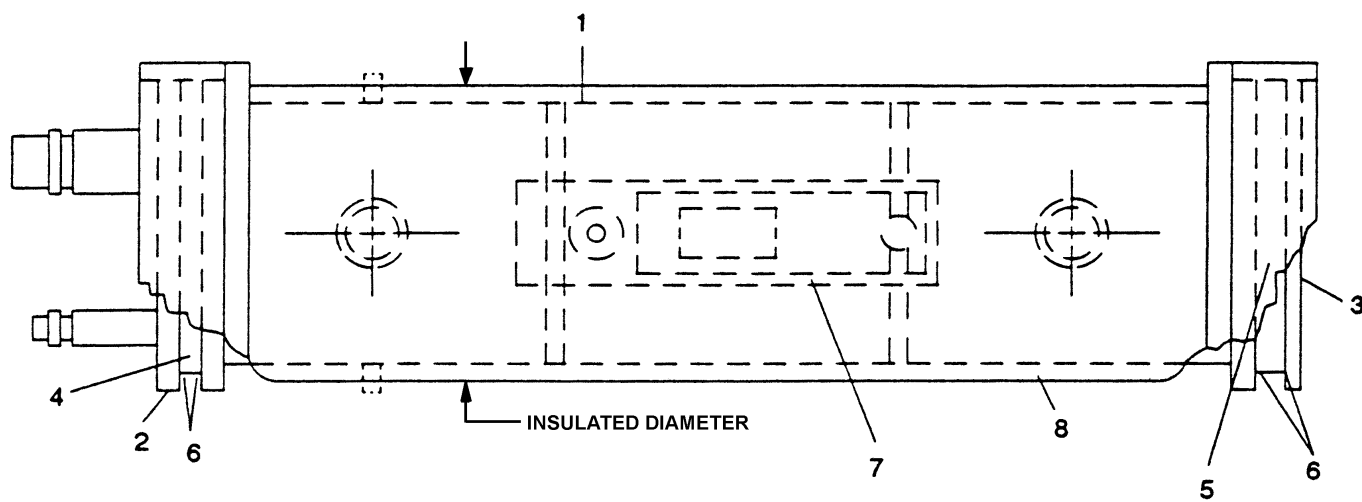
FIG. 14 – OIL LINE PIPING (Typical)



27975A

NOTE: Item Number from Page 20

FIG. 15 – COMPRESSOR VIBRATION ISOLATOR



LD00234

COOLER COMPONENTS

ITEM NO.	QUAN. PER UNIT	DESCRIPTION	DWP	UNIT MODEL	
				YCAS310, YCAS340, YCAS360, YCAS380	
1	1	Cooler, Less Insulation & Heater (Includes Items 2 thru 6)	150#	375-26052-000	
			300#		375-26072-000
2	1	Head, Connection End	ALL	375-18041-000	
3	1	Head, Back End	ALL	375-18043-000	
4	1	Pass Baffle, Connection End	ALL	375-18048-000	
5	1	Pass Baffle, Back End	ALL	075-18035-000	
^s 6+	4	Gasket, Pass Baffle and Head	ALL	075-18033-000	
^s 7	2	Heater	ALL	025-22691-000	
8	6	Insulation, 3/4" x 49" x 65"	ALL	010-04198-000	

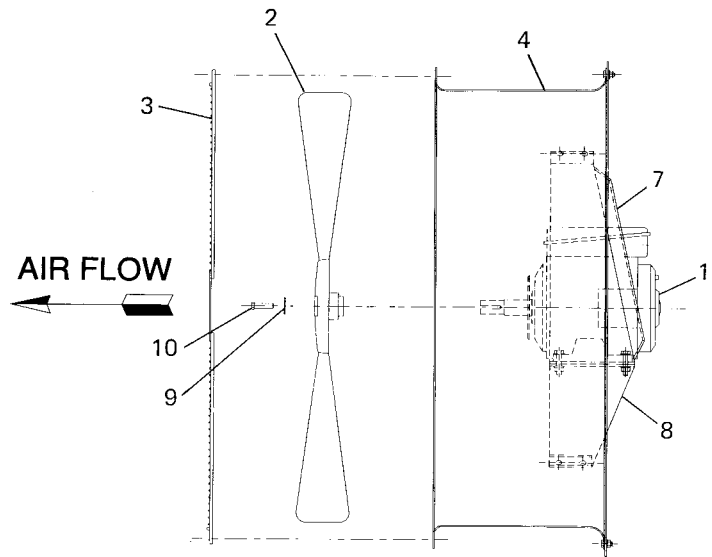
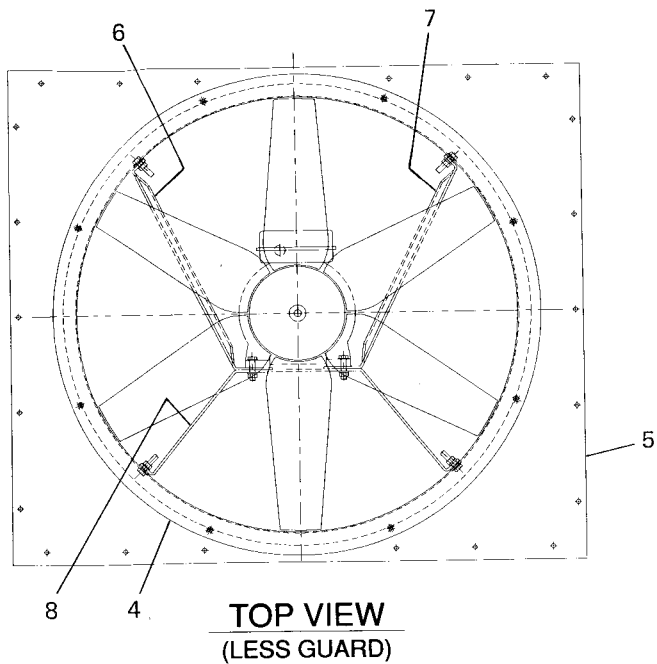
NOTES:

- + When replacing gasket, Item 6, use:

^s Sealer, Gasket, 013-02827-000

^s Primer, 013-01753-000

- ^s Recommended Stock Spare Part



LD02637

FAN (Typical)

FAN COMPONENTS

ITEM NUMBER	DESCRIPTION	VOLTAGE CODE	FAN TYPE	
			STANDARD	LOW NOISE (Option)
1	Motor	-17	NOT	NOT
		-28	AVAILABLE	AVAILABLE
		-40	024-25179-001	024-25247-001
		-46	024-25179-001	024-25247-001
		-58	024-25250-000	024-25252-000
	Motor Shaft Diameter	ALL	1-1/8"	1-3/8"
2	Blade	ALL	026-34433-000	026-34466-000
3	Guard	ALL	026-34431-000	026-34431-000
4	Orifice	ALL	326-34432-000	326-34432-000
5	Orifice Plate	ALL	075-19302-000	075-19302-000
6	Upper Motor Support (RH)	ALL	075-19164-000	075-21651-000
7	Upper Motor Support (LH)	ALL	075-19166-000	075-21652-000
8	Lower Motor Support	ALL	075-19167-000	075-21650-000
9	Washer	ALL	021-05146-000	021-01288-000
10	Screw, Cap	ALL	021-17791C000	021-18019-000

REPLACEMENT COMPONENTS FOR UNIT OPTIONS

NOTE:

**Parts listed above are for Single Replacement Parts contained in the Option Kits.
Part Number provided ARE NOT Part Numbers for complete Option Kits.**

ITEM NO.	QUAN. PER UNIT	DESCRIPTION		VOLTAGE CODE	ALL MODELS
A	2	CONTROL TRANSFORMER	Transformer	-17	025-29627-001
				-28	025-29627-002
				-40	025-29627-003
				-46	025-29627-002
				-58	025-29627-004
B	4		Fuse, Transformer	-17	025-27509-015
				-28	025-28967-000
				-40	025-27972-000
				-46	025-27971-000
				-58	025-30962-000
C	1	FLOW CONTROL SWITCH	Switch, Flow 150 Psi 300 Psi	ALL	024-26116-000
				ALL	024-12144-000
D	1	BAS INTERFACE	Control, Remote Reset	ALL	031-00814-000
E	3	CHICAGO CODE	Valve, Relief	ALL	022-08863-000
F	3	MUFFLER KIT	Adaptor	ALL	023-18225-000
G	3		O-Ring	ALL	028-12961-004



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