



Millennium™
AIR-COOLED SCREW LIQUID CHILLERS
AIR COOLED SCREW HERMETIC

RENEWAL PARTS

Supersedes: 201.10-RP1 (896)

Form 201.10-RP1 (997)

60 HERTZ

**YCAS140, YCAS160, YCAS170,
YCAS180, YCAS190, YCAS220,
YCAS216, YCAS236, YCAS246,
YCAS222, YCAS240, YCAS250,
YCAS216X (316), YCAS236X(336), YCAS266X(366)**

STYLE D



27960A

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.

(Engineering Data - Stamped on Unit Nameplate)

4 M 2 A 3 H L 6 A

2 Compressor "W" Chiller Configuration
(4 Fans & 8-32"x 83" Coils per Module)

- 1 = 50Hz, Economized, 1 Module
- 2 = 60Hz, Economized, 1 Module
- 3 = 50Hz, Economized, 1.5 Modules
- 4 = 60Hz, Economized, 1.5 Modules
- 5 = 50Hz, Economized, 2 Modules
- 6 = 60Hz, Economized, 2 Modules
- 7 = 50Hz, Economized, 2.5 Modules
- 8 = 60Hz, Economized, 2.5 Modules
- 9 = 50Hz, Economized, 3 Modules
- 10 = 60Hz, Economized, 3 Modules

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)

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

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

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

Cooler Code
H = 16" Cooler
K = 18" Cooler
N = 20" Cooler

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

MOTORS (60 Hz)

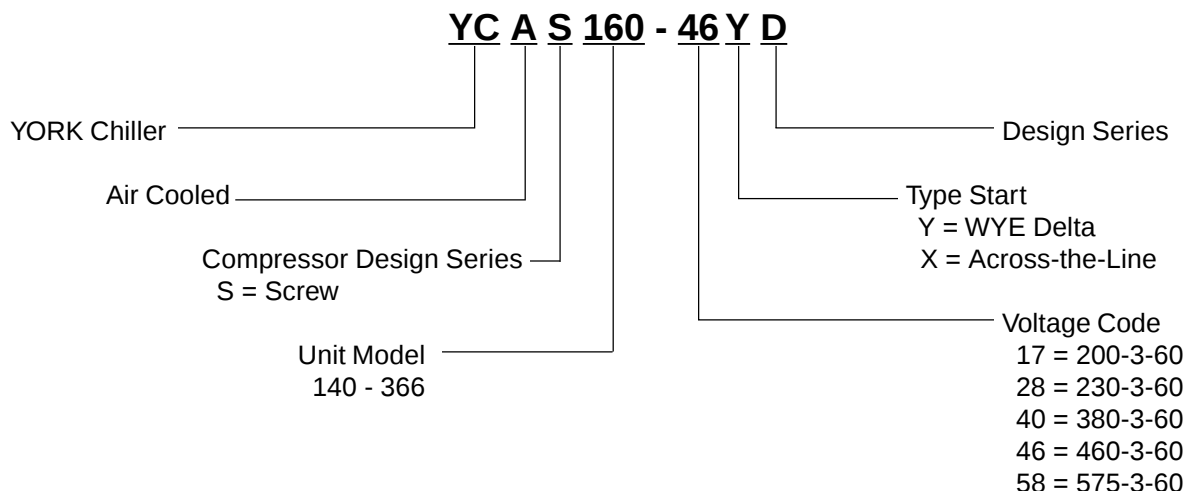
	<u>Max KW</u>
1 = 101 Frame, 8" Long	85
2 = 101 Frame, 9" Long	105
4 = 101 Frame, 10" Long	126
5 = 101 Frame, 10.75" Long	150

MOTORS (60 Hz)

	<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

UNIT NOMENCLATURE

The model number denotes the following characteristics of the unit:



COMPRESSOR PART NUMBERS

(Model XHS120 Semi-Hermetic Twin-Screw Compressor)

UNIT	SYSTEM	VOLTAGE CODE				
		17	28	40	46	58
YCAS140	1	015-02821-001	015-02821-002	015-02821-003	015-02821-004	015-02821-006
	2	015-02821-001	015-02821-002	015-02821-003	015-02821-004	015-02821-006
YCAS160	1	015-02812-001	015-02812-002	015-02812-003	015-02812-004	015-02812-006
	2	015-02812-001	015-02812-002	015-02812-003	015-02812-004	015-02812-006
YCAS170	1	015-02818-001	015-02818-002	015-02818-003	015-02818-004	015-02818-006
	2	015-02813-001	015-02813-002	015-02813-003	015-02813-004	015-02813-006
YCAS180	1	015-02818-001	015-02818-002	015-02818-003	015-02818-004	015-02818-006
	2	015-02818-001	015-02818-002	015-02818-003	015-02818-004	015-02818-006
YCAS190	1	015-02815-001	015-02815-002	015-02815-003	015-02815-004	015-02815-006
	2	015-02818-001	015-02818-002	015-02818-003	015-02818-004	015-02818-006
YCAS220	1	NOT AVAILABLE	NOT AVAILABLE	015-02808-003	015-02808-004	015-02808-006
	2	AVAILABLE	AVAILABLE	015-02814-003	015-02814-004	015-02814-006
YCAS216, YCAS222	1	NOT AVAILABLE	NOT AVAILABLE	015-02809-003	015-02809-004	015-02809-006
	2	AVAILABLE	AVAILABLE	015-02815-003	015-02815-004	015-02815-006
YCAS236, YCAS240	1	NOT AVAILABLE	NOT AVAILABLE	015-02809-003	015-02809-004	015-02809-006
	2	AVAILABLE	AVAILABLE	015-02809-003	015-02809-004	015-02809-006
YCAS246, YCAS250	1	NOT AVAILABLE	NOT AVAILABLE	015-02807-003	015-02807-004	015-02807-006
	2	AVAILABLE	AVAILABLE	015-02807-003	015-02807-004	015-02807-006
YCAS216X (316)	1	NOT AVAILABLE	NOT AVAILABLE	015-02814-003	015-02814-004	015-02814-006
	2	AVAILABLE	AVAILABLE	015-02814-003	015-02814-004	015-02814-006
YCAS236X (336)	1	NOT AVAILABLE	NOT AVAILABLE	015-02808-003	015-02808-004	015-02808-006
	2	AVAILABLE	AVAILABLE	015-02815-003	015-02815-004	015-02815-006
YCAS266X (366)	1	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE	015-02807-004	015-02807-006
	2	AVAILABLE	AVAILABLE	AVAILABLE	015-02807-004	015-02807-006

COMPRESSOR COMPONENTS (All Unit Models) YCAS

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
3	Economizer Flange, 4 Bolt	ALL	534B 0446H01
4	DISCHARGE CHECK VALVE		
5	Complete Replacement Assembly, 120 mm	ALL	534C 1075G02
5	O-Ring only for Valve	ALL	980A 0012B06
6	SLIDE VALVE PARTS		
7	Slide Valve	ALL	534C 0803C01
8	Slide Valve Piston	ALL	534C 0938H01
9	Bolt	ALL	534A 0343H01
10	Glyde Ring (narrow)	ALL	534C 0187H08
11	Glyde Ring (wide)	ALL	534B 0079H04
12	Pipe Plug	ALL	944A 0008H04
13	O-Ring, Cylinder Cover	ALL	980A 0012A97
14	O-Ring, Piston	ALL	980A 0012A94
15	Slide Valve Control Solenoid	ALL	951A 0056H39
16	Gasket, Slide Valve Solenoid	ALL	534B 0446H01
17	OIL HEATER (In Compressor)		
18	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
19	Sight Glass, 1" MPT	ALL	3-020-014 AC&R Components, Inc.

COMPRESSOR FITTINGS (All Unit Models) – See Page 14 and Back Cover

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

NOTE: Remanufactured Compressors DO NOT include the following:

- Terminal Box Assembly (Re-use)
- Slide Valve Control Solenoid (Re-use)
- Discharge Valve (Re-use)
- Motor Protection Module (Re-use)
- Suction Valve (Re-use)
- Economizer Valve (Re-use)
- Oil Heater (Order new replacement)

^SCOMPRESSOR MOTOR CONTACTORS AND OVERLOADS

UNIT MODEL	SYSTEM	CONTACTOR/OVERLOAD		TYPE START	VOLTAGE CODE				
		DESCRIPTION	ITEM		-17	-28	-40	-46	-58
YCAS140	1	Contactor	2M/1S	Y	024-26995-000	024-26995-000	024-26994-000	024-26993-000	024-26993-000
			1A	Y	024-26998-000	024-26998-000	024-26997-000	024-26997-000	024-26997-000
			1M	Y	024-26992-000	024-26992-000	024-26991-000	024-26990-000	024-26990-000
				X	NOT AVAIL.	NOT AVAIL.	NOT AVAIL.	024-26992-000	024-26992-000
		Overload	1 OL	Y	024-27276-000	024-27276-000	024-27275-000	024-27274-000	024-27274-000
				X	NOT AVAIL.	NOT AVAIL.	NOT AVAIL.	024-27276-000	024-27275-000
	2	Contactor	2S/4M	Y	024-26988-000	024-26988-000	024-26987-000	024-26986-000	024-26986-000
			2A	Y	024-26984-000	024-26984-000	024-26983-000	024-26983-000	024-26983-000
			3M	Y	024-26992-000	024-26992-000	024-26991-000	024-26990-000	024-26990-000
				X	NOT AVAIL.	NOT AVAIL.	NOT AVAIL.	024-26992-000	024-26992-000
		Overload	2 OL	Y	024-27276-000	024-27276-000	024-27275-000	024-27274-000	024-27274-000
				X	NOT AVAIL.	NOT AVAIL.	NOT AVAIL.	024-27276-000	024-27275-000
YCAS160	1	Contactor	2M/1S	Y	024-26996-000	024-26995-000	024-26995-000	024-26994-000	024-26993-000
			1A	Y	024-26999-000	024-26998-000	024-26998-000	024-26997-000	024-26997-000
			1M	Y	024-27200-000	024-26992-000	024-26992-000	024-26991-000	024-26990-000
				X	NOT AVAIL.	NOT AVAIL.	NOT AVAIL.	024-26992-000	024-26990-000
		Overload	1 OL	Y	024-27277-000	024-27276-000	024-27275-000	024-27275-000	024-27274-000
				X	NOT AVAIL.	NOT AVAIL.	NOT AVAIL.	024-27276-000	024-27276-000
	2	Contactor	2S/4M	Y	024-26989-000	024-26988-000	024-26988-000	024-26987-000	024-26986-000
			2A	Y	024-26985-000	024-26984-000	024-26984-000	024-26983-000	024-26983-000
			3M	Y	024-27200-000	024-26992-000	024-26992-000	024-26991-000	024-26990-000
				X	NOT AVAIL.	NOT AVAIL.	NOT AVAIL.	024-26992-000	024-26992-000
		Overload	2 OL	Y	024-27227-000	024-27276-000	024-27275-000	024-27275-000	024-27274-000
				X	NOT AVAIL.	NOT AVAIL.	NOT AVAIL.	024-27276-000	024-27276-000
YCAS170	1	Contactor	2M/1S	Y	024-26996-000	024-26996-000	024-26995-000	024-26995-000	024-26993-000
			1A	Y	024-26999-000	024-26999-000	024-26998-000	024-26998-000	024-26997-000
			1M	Y	024-27200-000	024-27200-000	024-26992-000	024-26992-000	024-26990-000
				X	NOT AVAIL.	NOT AVAIL.	NOT AVAIL.	024-27200-000	024-26992-000
		Overload	1 OL	Y	024-27277-000	024-27277-000	024-27276-000	024-27275-000	024-27275-000
				X	NOT AVAIL.	NOT AVAIL.	NOT AVAIL.	024-27276-000	024-27276-000
	2	Contactor	2S/4M	Y	024-26989-000	024-26989-000	024-26988-000	024-26988-000	024-26986-000
			2A	Y	024-26985-000	024-26985-000	024-26984-000	024-26984-000	024-26983-000
			3M	Y	024-27200-000	024-27200-000	024-26992-000	024-26992-000	024-26990-000
				X	NOT AVAIL.	NOT AVAIL.	NOT AVAIL.	024-27200-000	024-26992-000
		Overload	2 OL	Y	024-27277-000	024-27276-000	024-27275-000	024-27275-000	024-27274-000
				X	NOT AVAIL.	NOT AVAIL.	NOT AVAIL.	024-27276-000	024-27276-000
YCAS180	1	Contactor	2M/1S	Y	024-26996-000	024-26996-000	024-26995-000	024-26995-000	024-26993-000
			1A	Y	024-26999-000	024-26999-000	024-26998-000	024-26998-000	024-26997-000
			1M	Y	024-27200-000	024-27200-000	024-26992-000	024-26992-000	024-26990-000
				X	NOT AVAIL.	NOT AVAIL.	NOT AVAIL.	024-27200-000	024-26992-000
		Overload	1 OL	Y	024-27277-000	024-27277-000	024-27276-000	024-27275-000	024-27275-000
				X	NOT AVAIL.	NOT AVAIL.	NOT AVAIL.	024-27276-000	024-27276-000
	2	Contactor	2S/4M	Y	024-26989-000	024-26989-000	024-26988-000	024-26988-000	024-26986-000
			2A	Y	024-26985-000	024-26985-000	024-26984-000	024-26984-000	024-26983-000
			3M	Y	024-27200-000	024-27200-000	024-26992-000	024-26992-000	024-26990-000
				X	NOT AVAIL.	NOT AVAIL.	NOT AVAIL.	024-27200-000	024-26992-000
		Overload	2 OL	Y	024-27277-000	024-27277-000	024-27276-000	024-27275-000	024-27275-000
				X	NOT AVAIL.	NOT AVAIL.	NOT AVAIL.	024-27276-000	024-27276-000

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

(TABLE CONTINUED ON PAGE 6)

COMPRESSOR MOTOR CONTACTORS AND OVERLOADS (Cont'd)

UNIT MODEL	SYSTEM	CONTACTOR/OVERLOAD		TYPE START	VOLTAGE CODE				
		DESCRIPTION	ITEM		-17	-28	-40	-46	-58
YCAS190	1	Contactor	2M/1S	Y	024-26996-000	024-26996-000	024-26995-000	024-26995-000	024-26994-000
			1A	Y	024-26999-000	024-26999-000	024-26998-000	024-26998-000	024-26997-000
			1M	Y	024-27200-000	024-27200-000	024-26992-000	024-26992-000	024-26991-000
				X	NOT AVAIL.	NOT AVAIL.	NOT AVAIL.	024-27200-000	024-26992-000
		Overload	1 OL	Y	024-27277-000	024-27277-000	024-27276-000	024-27275-000	024-27275-000
				X	NOT AVAIL.	NOT AVAIL.	NOT AVAIL.	024-27277-000	024-27276-000
	2	Contactor	2S/4M	Y	024-26989-000	024-26989-000	024-26988-000	024-26988-000	024-26987-000
			2A	Y	024-26985-000	024-26985-000	024-26984-000	024-26984-000	024-26983-000
			3M	Y	024-27200-000	024-27200-000	024-26992-000	024-26992-000	024-26991-000
				X	NOT AVAIL.	NOT AVAIL.	NOT AVAIL.	024-27200-000	024-26992-000
		Overload	2 OL	Y	024-27277-000	024-27277-000	024-27276-000	024-27275-000	024-27275-000
				X	NOT AVAIL.	NOT AVAIL.	NOT AVAIL.	024-27276-000	024-27276-000
YCAS220	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	024-27275-000	024-27275-000
				X			NOT AVAIL.	024-27277-000	024-27276-000
YCAS216 YCAS222	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	024-27275-000	024-27275-000
				X			NOT AVAIL.	024-27277-000	024-27276-000
YCAS236 YCAS240	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	024-26989-000	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	024-27277-000

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

(TABLE CONTINUED ON PAGE 7)

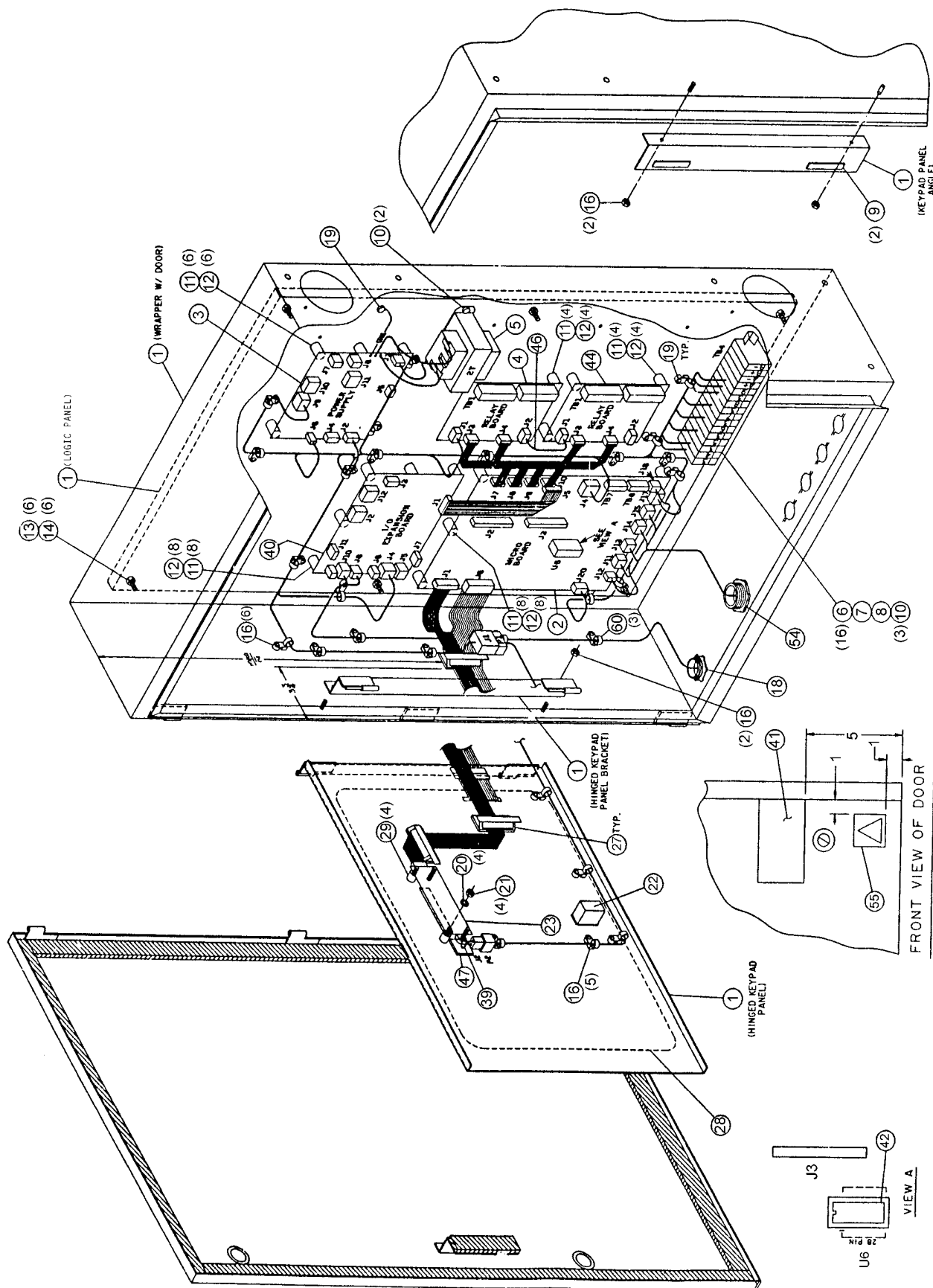
^sCOMPRESSOR MOTOR CONTACTORS AND OVERLOADS (Cont'd)

UNIT MODEL	SYSTEM	CONTACTOR/OVERLOAD		TYPE START	VOLTAGE CODE				
		DESCRIPTION	ITEM		-17	-28	-40	-46	-58
YCAS246 YCAS250	1	Contactor	2M/1S	Y	NOT AVAILABLE	NOT AVAILABLE	024-26996-000	024-26995-000	024-26995-000
			1A	Y			024-26995-000	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
YCAS216X YCAS316	1	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	024-27276-000
	2	Contactor	2S/4M	Y	NOT AVAILABLE	NOT AVAILABLE	024-26988-000	024-26988-000	024-26987-000
			2A	Y			024-26984-000	024-26984-000	024-26983-000
			3M	Y			024-26992-000	024-26992-000	024-26991-000
				X			NOT AVAIL.	024-27200-000	024-26992-000
		Overload	2 OL	Y			024-27276-000	024-27275-000	024-27275-000
				X			NOT AVAIL.	024-27276-000	024-27276-000
YCAS236X YCAS336	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	024-27275-000	024-27275-000
				X			NOT AVAIL.	024-27277-000	024-27276-000
YCAS266X YCAS366	1	Contactor	2M/1S	Y	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE	024-26995-000	024-26995-000
			1A	Y				024-26998-000	024-26998-000
			1M	Y				024-26992-000	024-26992-000
				X				024-27200-000	024-27200-000
		Overload	1 OL	Y				024-27276-000	024-27276-000
				X				024-27277-000	024-27277-000
	2	Contactor	2S/4M	Y	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE	024-26988-000	024-26988-000
			2A	Y				024-26984-000	024-26984-000
			3M	Y				024-26992-000	024-26992-000
				X				024-27200-000	024-27200-000
		Overload	2 OL	Y				024-27276-000	024-27276-000
				X				024-27277-000	024-27277-000

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

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 ^s Recommended Stock Spare Part 3. Use with socket contact 025-28386-000 for 22-186 GA wire termination.
^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. 9 Pin	025-28383-000	3	
18	1	Connr., 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	031-01714-001		
43	1	Harness, Hinged Panel Wiring	571-01226-212		
44	1	Control Relay, SS Output Board	031-01369-000		
45	2	Housing, Connector Plug, 6 Pin	025-28382-000	3	
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	



LD00538

FIG. 1 - CONTROL PANEL, BOX

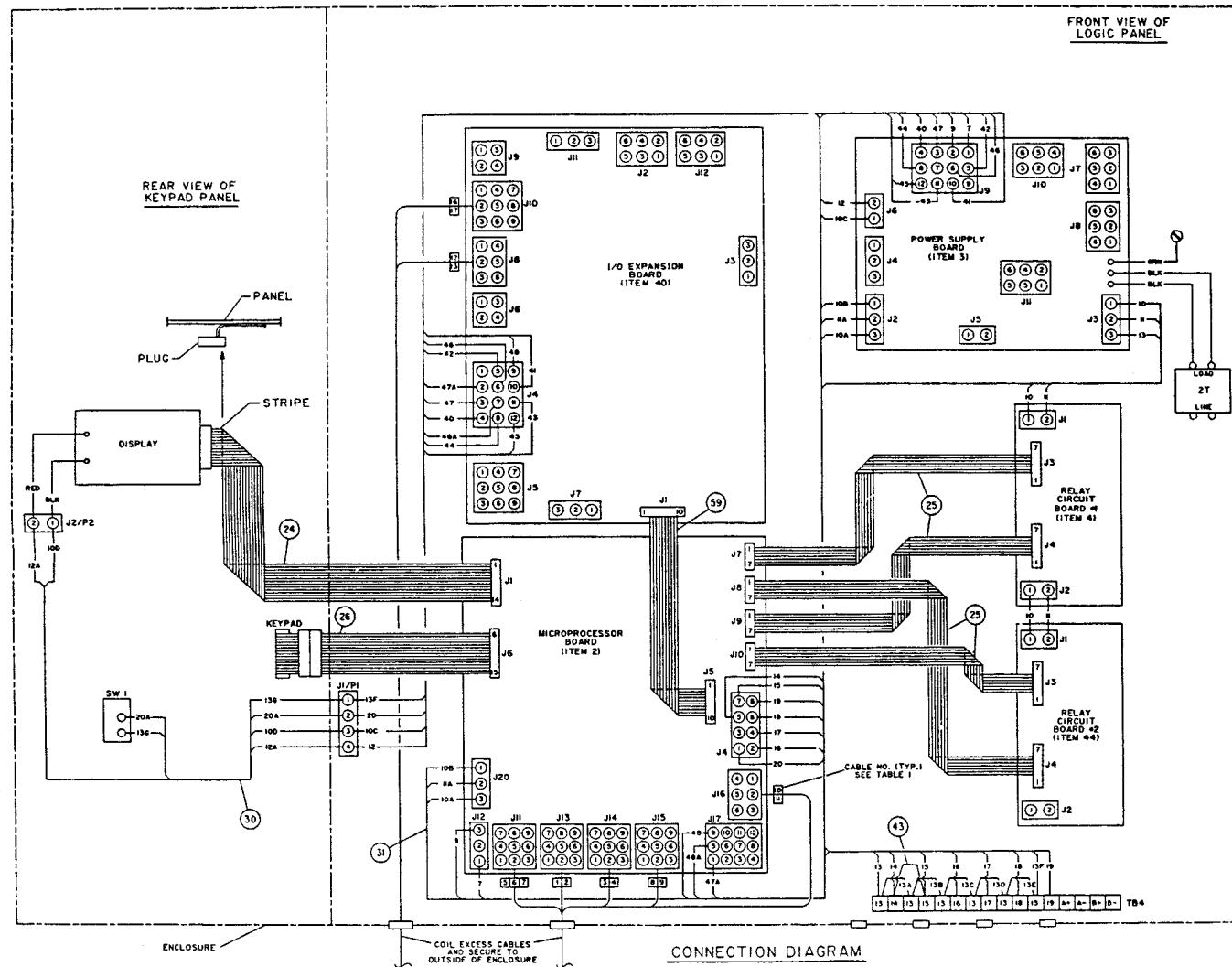
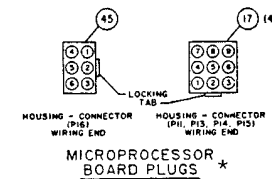


TABLE 1

BOARD PLUG NO.	CABLE ITEM NO.	CABLE NO.	WIRE COLOR	PLUG PIR NO.	FUNCTION
MICRO P13	32	1	RED 4	4	SYS #1 SUCTION PRESSURE
			BLK 1	1	DRAIN 2
			WHT 7	7	DRAIN 2
MICRO P13	33	2	RED 5	5	SYS #1 OIL PRESSURE
			BLK 3	3	DRAIN 2
			WHT 6	6	DRAIN 2
MICRO P14	34	3	RED 4	4	SYS #2 SUCTION PRESSURE
			BLK 1	1	DRAIN 2
			WHT 7	7	DRAIN 2
MICRO P14	35	4	RED 5	5	SYS #2 OIL PRESSURE
			BLK 3	3	DRAIN 2
			WHT 6	6	DRAIN 2
MICRO P15	36	5	RED 4	4	LEAVING COOLED WATER
			BLK 1	1	ENTERING COOLED WATER
			WHT 7	7	OUTSIDE TEMP.
MICRO P15	37	6	RED 5	5	SYS #2 DISCH. PRESSURE
			BLK 3	3	DRAIN 2
			WHT 6	6	DRAIN 2
MICRO P16	38	7	RED 4	4	SYS #2 SUCTION TEMP.
			BLK 1	1	DRAIN 2
			WHT 7	7	DRAIN 2
I/O P10	39	8	RED 5	5	SYS #2 OIL TEMP.
			BLK 3	3	DRAIN 2
			WHT 6	6	DRAIN 2
I/O P8	40	9	RED 4	4	SYS #2 DISCH. TEMP.
			BLK 1	1	DRAIN 2
			WHT 7	7	DRAIN 2
I/O P8	41	10	RED 5	5	SYS #2 SUCTION TEMP.
			BLK 3	3	DRAIN 2
			WHT 6	6	DRAIN 2
I/O P8	42	11	RED 4	4	SYS #2 OIL TEMP.
			BLK 1	1	DRAIN 2
			WHT 7	7	DRAIN 2
I/O P8	43	12	RED 5	5	SYS #2 DISCH. TEMP.
			BLK 3	3	DRAIN 2
			WHT 6	6	DRAIN 2
I/O P8	44	13	RED 4	4	SYS #2 SUCTION TEMP.
			BLK 1	1	DRAIN 2
			WHT 7	7	DRAIN 2



* SEE NOTE 3, PAGE 8

LD000539

FIG. 2 - CONTROL PANEL, CONNECTION DIAGRAM

RESISTORS AND RESISTOR PROGRAMS

ITEM NO.	COMPONENT	TYPE START	VOLT CODE	SYST	UNIT MODEL							
					YCAS140	YCAS160	YCAS170	YCAS180	YCAS190	YCAS220		
23A	Resistor	Wye-Delta	-17	1	025-30429-000	025-30428-000	025-30428-000	025-30428-000	025-30427-000	NOT AVAILABLE		
24A				2	025-30429-000	025-30428-000	025-30428-000	025-30428-000	025-30428-000			
23B			-28	1	025-31747-000	025-30429-000	025-30429-000	025-30429-000	025-30428-000			
24B				2	025-31747-000	025-30429-000	025-30429-000	025-30429-000	025-30429-000			
23C			-40	1	025-30429-000	025-30428-000	025-30428-000	025-30428-000	025-30427-000	025-30427-000		
24C				2	025-30429-000	025-30428-000	025-30428-000	025-30428-000	025-30428-000	025-30427-000		
23D			-46	1	025-31748-000	025-30429-000	025-30429-000	025-30429-000	025-30428-000	025-30428-000		
24D				2	025-31748-000	025-30429-000	025-30429-000	025-30428-000	025-30429-000	025-30428-000		
23E			-58	1	025-31750-000	025-31749-000	025-31748-000	025-31748-000	025-31747-000	025-30429-000		
24E				2	025-31750-000	025-31749-000	025-31749-000	025-31748-000	025-31748-000	025-31747-000		
25A	Resistor Program	Wye-Delta	-17	1	031-01459-072	031-01459-077	031-01459-082	031-01459-082	031-01459-087	NOT AVAILABLE		
26A				2	031-01459-072	031-01459-077	031-01459-082	031-01459-082	031-01459-082			
25B			-28	1	031-01459-073	031-01459-078	031-01459-083	031-01459-083	031-01459-088			
26B				2	031-01459-073	031-01459-078	031-01459-083	031-01459-083	031-01459-083			
25C			-40	1	031-01459-074	031-01459-079	031-01459-084	031-01459-084	031-01459-089	031-01459-089		
26C				2	031-01459-074	031-01459-079	031-01459-084	031-01459-084	031-01459-084	031-01459-084		
25D			-46	1	031-01459-075	031-01459-080	031-01459-085	031-01459-085	031-01459-091	031-01459-091		
26D				2	031-01459-075	031-01459-080	031-01459-085	031-01459-085	031-01459-085	031-01459-085		
25E			-58	1	031-01459-076	031-01459-081	031-01459-086	031-01459-086	031-01459-090	031-01459-090		
26E				2	031-01459-076	031-01459-081	031-01459-086	031-01459-086	031-01459-086	031-01459-086		
25F		Across-the-Line	-46	1	031-01459-098	031-01459-100	031-01459-102	031-01459-102	031-01459-104	031-01459-104		
26F				2	031-01459-098	031-01459-100	031-01459-102	031-01459-102	031-01459-102	031-01459-102		
25G			-58	1	031-01459-099	031-01459-101	031-01459-103	031-01459-103	031-01459-105	031-01459-105		
26G				2	031-01459-099	031-01459-101	031-01459-103	031-01459-103	031-01459-103	031-01459-103		
					UNIT MODEL							
					YCAS216 YCAS222	YCAS236 YCAS240	YCAS246 YCAS250	YCAS216X YCAS316	YCAS236X YCAS336	YCAS266X YCAS366		
23A	Resistor	Wye-Delta	-17	1	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE		
24A				2								
23B			-28	1	AVAILABLE	AVAILABLE	AVAILABLE	AVAILABLE	AVAILABLE			
24B				2								
23C			-40	1	025-30427-000	025-30427-000	025-30426-000	025-30427-000	025-30427-000			
24C				2	025-30427-000	025-30427-000	025-30426-000	025-30428-000	025-30427-000			
23D			-46	1	025-30428-000	025-30428-000	025-30428-000	025-30428-000	025-30428-000	025-30428-000		
24D				2	025-30428-000	025-30428-000	025-30428-000	025-30429-000	025-30428-000	025-30428-000		
23E			-58	1	025-30429-000	025-30429-000	025-30429-000	025-31747-000	025-30429-000	025-30429-000		
24E				2	025-31747-000	025-30429-000	025-30429-000	025-31748-000	025-31747-000	025-30429-000		
25A	Resistor Program	Wye-Delta	-17	1	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE		
26A				2								
25B			-28	1	AVAILABLE	AVAILABLE	AVAILABLE	AVAILABLE	AVAILABLE			
26B				2								
25C			-40	1	031-01459-095	031-01459-095	031-01459-092	031-01459-084	031-01459-089			
26C				2	031-01459-089	031-01459-095	031-01459-092	031-01459-084	031-01459-084			
25D			-46	1	031-01459-096	031-01459-096	031-01459-093	031-01459-085	031-01459-091	031-01459-093		
26D				2	031-01459-091	031-01459-096	031-01459-093	031-01459-085	031-01459-085	031-01459-093		
25E			-58	1	031-01459-097	031-01459-097	031-01459-094	031-01459-086	031-01459-090	031-01459-094		
26E				2	031-01459-090	031-01459-097	031-01459-094	031-01459-086	031-01459-086	031-01459-094		
25F		Across-the-Line	-46	1	031-01459-049	031-01459-049	031-01459-049	031-01459-102	031-01459-104	031-01459-049		
26F				2	031-01459-104	031-01459-049	031-01459-049	031-01459-102	031-01459-102	031-01459-049		
25G			-58	1	031-01459-107	031-01459-107	031-01459-106	031-01459-103	031-01459-105	031-01459-106		
26G				2	031-01459-105	031-01459-107	031-01459-106	031-01459-103	031-01459-103	031-01459-106		

POWER PANEL CONTROL COMPONENTS (See Figure 3 – 2-Module, Wye-Delta Panel Shown)¹

ITEM NO	QUANT. PER UNIT	TYPE START	SYS	LEGEND NUMBER	DESCRIPTION		VOLT. CODE	PART NO. ALL MODELS
^s 1	1	Wye-Delta	1	2M/1S	CONTACTORS	Contactor, Compressor (Includes Suppressor)	See Pages 5, 6, 7	
^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	6 per Module	COMMON	1	5M - 10M, 17M ² , 19M ² , 21M ²		Contactor, Fan (Includes Suppressor)	17	024-25526-000
							28	024-25526-000
							40	024-25521-000
							46	024-25521-000
							58	024-25521-000
^s 10	1	Wye-Delta	1	1 OL	OVERLOADS	Overload, Compressor 024-27274-000: 0.16 - .025 FLA 024-27275-000: 0.25 - .040 FLA 024-27276-000: 0.40 - 0.63 FLA 024-27277-000: 0.63 - 1.0 FLA	See Pages 5, 6, 7	
		Across-the-Line	1					
		Wye-Delta	2	2 OL				
		Across-the-Line	2					
^s 14	2 per Module	COMMON	1	5 OL - 8 OL, 17 OL ² , 19 OL ²		Overload, Fan Standard Unit	17	024-27268-000
							28	024-27268-000
							40	024-27267-000
							46	024-27267-000
							58	024-27267-000
^s 15	2 per Module	COMMON	2	11 OL - 14 OL, 18 OL ² , 20 OL ²		Unit with Low Noise Option	17	024-27268-000
							28	024-27268-000
							40	024-27281-000
							46	024-27281-000
							58	024-27267-000
^s 16	1		—		FUSES	Electronic Power Supply Circuit (5 amp), 2FU Control Circuit (20 amp), 1FU	ALL	025-27922-000
^s 17	1		—				ALL	025-28967-000
^s 18	6		1,2		TRANSFORMERS	Transformer, Current (1CT, 2CT, 3CT, 4CT, 5CT, 6CT) Transformer, Current (7CT, 8CT, 9CT, 10CT, 11CT, 12CT)	ALL	025-27408-000
^s 19	6						ALL	025-21173-002
^s 20	4		1,2		INTERLOCKS	Fan Contactor Interlock, Mechanical	ALL	024-27208-000
^s 21	4		1,2				ALL	024-25598-000
^s 22	2	Wye-Delta	1,2		RELAYS	Relay, Fan Control (1CR, 2CR, 3CR, 4CR) Relay, Fan Control Timer (1TR, 2TR)	ALL	024-25597-000
^s 23	6		1				ALL	See Page 11
^s 24	6		2		RESISTORS	Resistor, Compressor Start	ALL	
^s 25 ³	1		1				ALL	
^s 26 ³	1		2		RESISTOR PROGRAM	Resistor Program	ALL	
^s 25 ³	1	Across-the-Line	1				ALL	
^s 26 ³	1		2				ALL	
^s 26 ³	1						ALL	

NOTES:

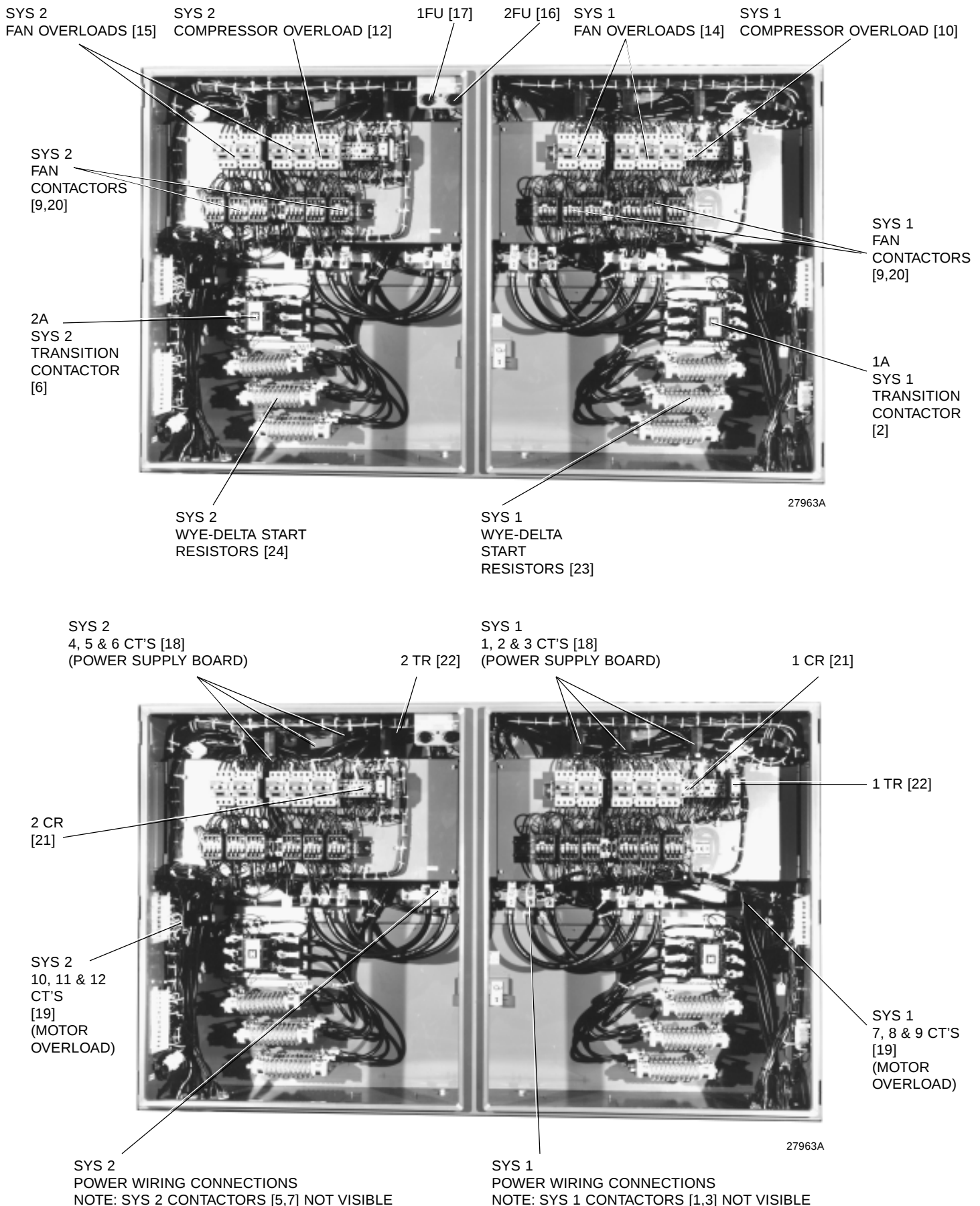
^s = Recommended Stock Spare Parts

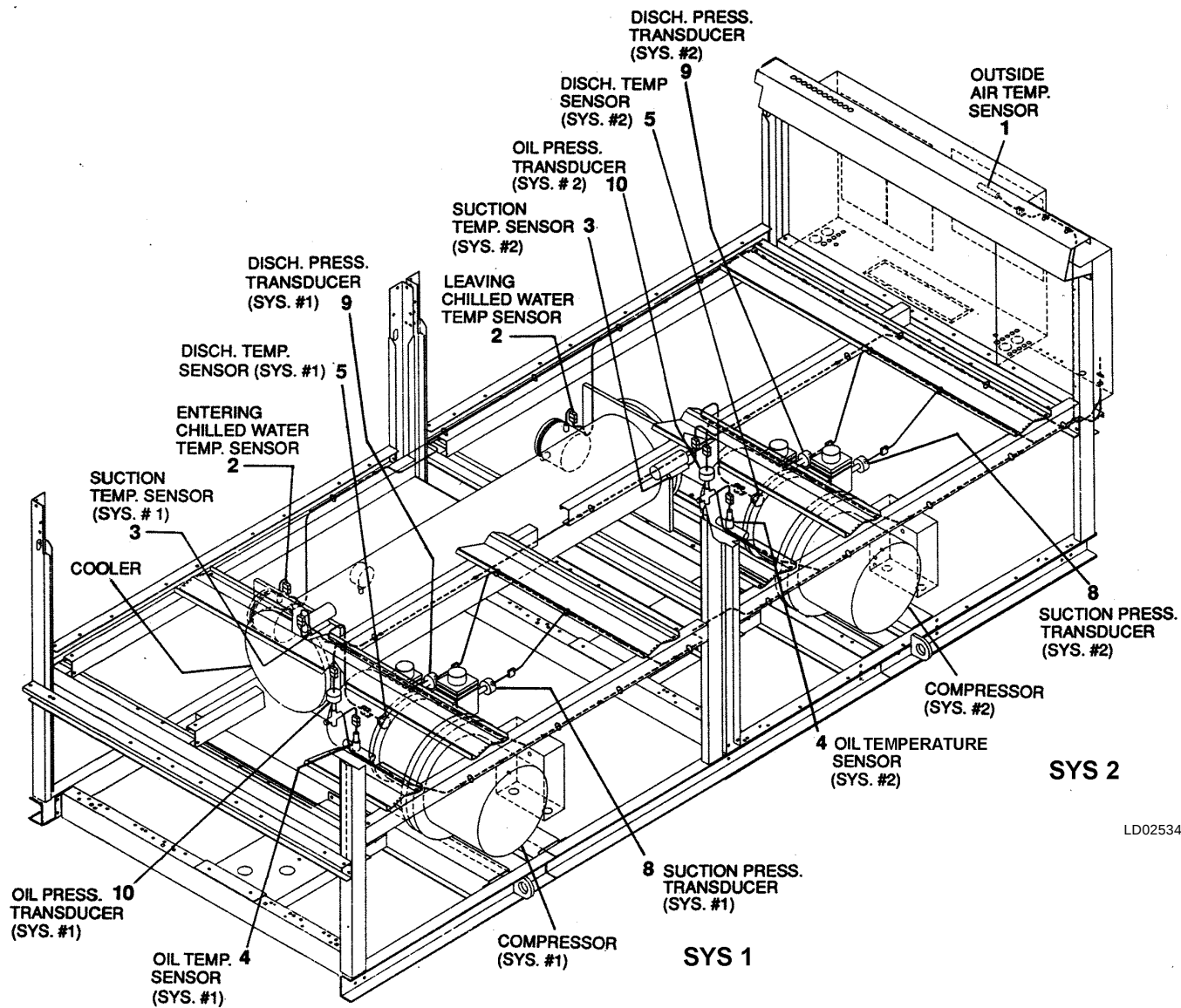
¹ = Across-the-Line (ACL) Power Panel not shown.

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

² = 3-Module Units Only

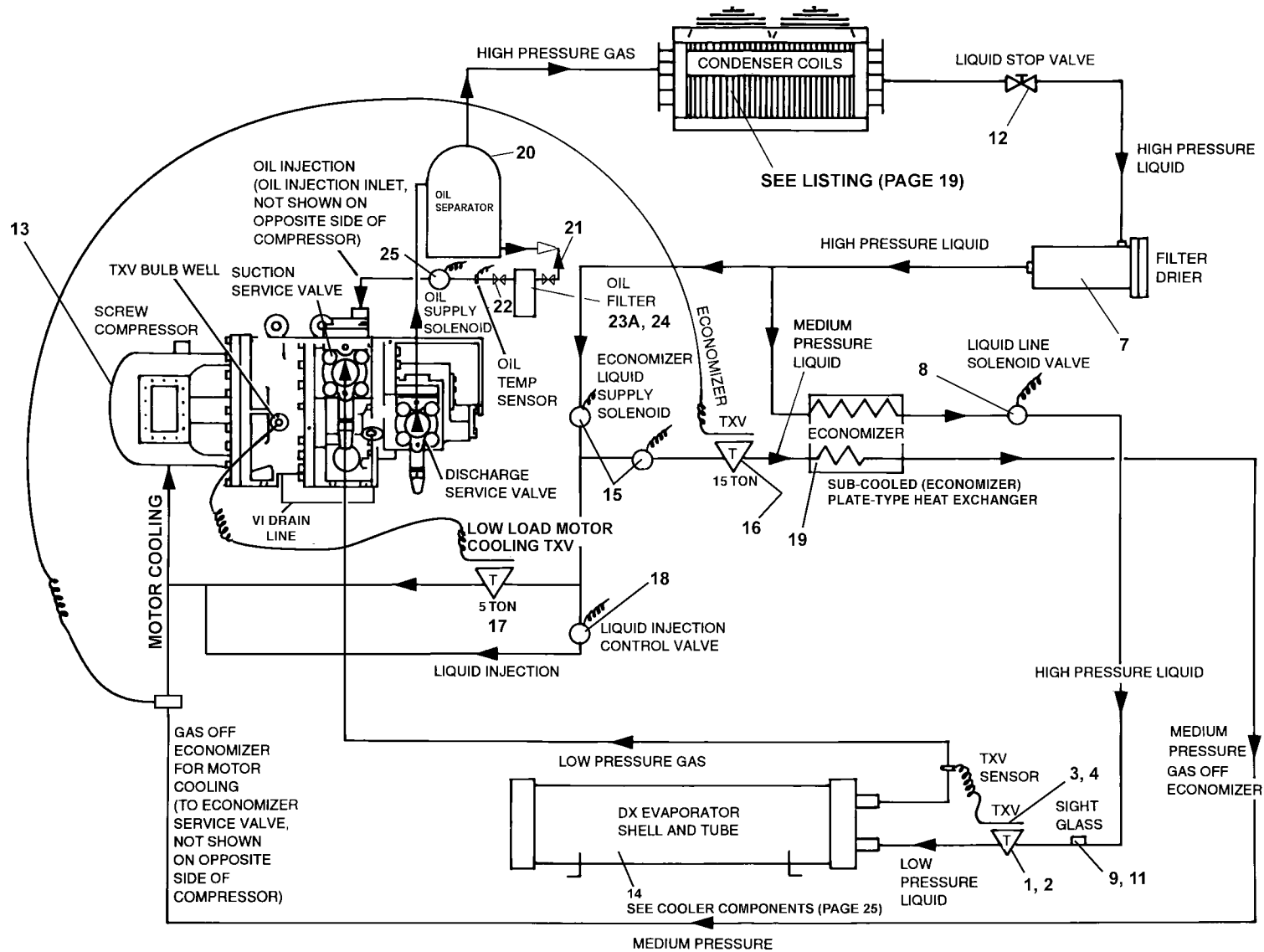
³ = Not Shown. Shipped Loose for Field Installation.

**FIG. 3**



LD02534

FIG. 5 - SYSTEM CONTROL COMPONENTS (2-Module Unit Shown)



LD01285

NOTE: [N] Item Number from Pages 17, 18

FIG. 6 – SCREW CHILLER REFRIGERANT FLOW DIAGRAM WITH REFRIGERANT SYSTEM COMPONENTS

REFRIGERANT SYSTEM COMPONENTS MODELS 140 – 220

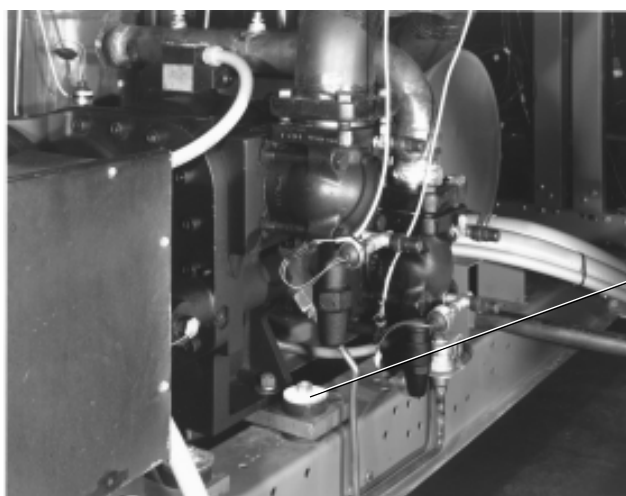
ITEM NO	QUANT/ UNIT	DESCRIPTION	SYSTEM NUMBER	SEE PAGE NO	UNIT MODEL					
					YCAS140	YCAS160	YCAS170	YCAS180	YCAS190	YCAS220
^s 1	1	Valve, Thermal Exp., Cooler	1	16, 20, 23	025-20069	025-32905	025-32905	025-32905	025-32905	025-32906
^s 2	1	Complete - Includes Power Head	2		025-20069	025-32905	025-32905	025-32905	025-32905	025-32905
3	1	Power Head, TXV	1	16, 20, 23	025-32901	025-32902	025-32902	025-32902	025-32902	025-32837
4	1		2		025-32901	025-32902	025-32902	025-32902	025-32902	025-32902
5	1	Dehydrator, Body	1	20, 22	026-16960	026-16960	026-16960	026-16960	026-16960	026-16960
6	1	(Replaceable Core)	2		026-16960	026-16960	026-16960	026-16960	026-16960	026-16960
^s 7	6	Dehydrator Core (Use with Items 5, 6)	1, 2	20, 22	026-18328	026-18328	026-18328	026-18328	026-18328	026-18328
8	2	Valve, Liquid Solenoid	1	16, 20, 23	025-28376	025-28376	025-28375	025-28375	025-28375	025-28375
			2		025-28376	025-28376	025-28376	025-28375	025-28375	025-28375
9	1	Moisture Indicator, Body	1	23	026-32398	026-32398	026-32398	026-32398	026-32398	026-32399
10	1		2		026-32398	026-32398	026-32398	026-32398	026-32398	026-32398
11	2	Moisture Indicator, Cap Assembly	1, 2	23	026-32800	026-32800	026-32800	026-32800	026-32800	026-32800
12	2	Valve, Liquid Stop	1, 2	20, 22	022-08740	022-08740	022-08740	022-08740	022-08740	022-08740
13	2	Compressor	1, 2	3, 20						
14	1	Evaporator	—	20, 25						
15	4	Valve, Solenoid, Economizer	1, 2	16, 22	025-31771	025-31771	025-31771	025-31771	025-31771	025-31771
16	2	Valve, Therm. Expan., Econ.	1, 2	16, 22	025-32845	025-32845	025-32845	025-32845	025-32845	025-32845
17	2	Valve, Therm Expan., Motor Cool.	1, 2	16	025-32844	025-32844	025-32844	025-32844	025-32844	025-32844
18	2	Valve, Liquid Injection, Compr.	1, 2	16, 21	025-32908	025-32908	025-32908	025-32908	025-32908	025-32908
19	2	Economizer	1, 2	20, 22	026-34418	026-34418	026-34418	026-34418	026-34418	026-34418
20	2	Valve, Relief, Oil Separator	1, 2	22	022-09547	022-09547	022-09547	022-09547	022-09547	022-09547
21	2	Valve, 3/8 Angle	1, 2	22	022-01582	022-01582	022-01582	022-01582	022-01582	022-01582
22	4	Valve, Ball, Oil Filter Isolation	1, 2	22	022-09172	022-09172	022-09172	022-09172	022-09172	022-09172
23	2	Oil Filter, Housing ²	1, 2	22 ²	026-33897	026-33897	026-33897	026-33897	026-33897	026-33897
23A	2	Gasket/Seal, Oil Filter	1, 2	22	026-34465	026-34465	026-34465	026-34465	026-34465	026-34465
24	2	Element, Oil Filter	1, 2	22	026-32386	026-32386	026-32386	026-32386	026-32386	026-32386
25	2	Valve, Solenoid, Oil Supply	1, 2	22	025-28903	025-28903	025-28903	025-28903	025-28903	025-28903
26	2	Adaptor, Oil Supply 3/4 - 16 UNF	1, 2	NOTE 1	023-18241	023-18241	023-18241	023-18241	023-18241	023-18241
27	8	Isolator, Vibration Mount	1, 2	17	026-34417	026-34417	026-34417	026-34417	026-34417	026-34417

^sRecommended Stock Spare Part

(TABLE CONTINUED ON PAGES 18, 19)

Note: 1. Not Shown

2. Complete housing includes 23A, 24



COMPRESSOR VIBRATION ISOLATOR [27]

COMPRESSOR VIBRATION ISOLATOR

27975A

REFRIGERANT SYSTEM COMPONENTS MODELS 216 – 366

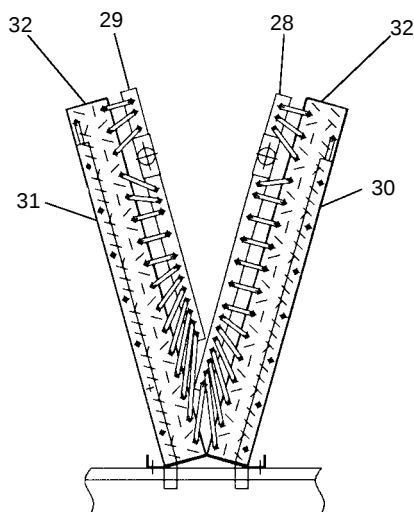
ITEM NO	QUANT/ UNIT	DESCRIPTION	SYSTEM NUMBER	SEE PAGE NO	UNIT MODEL					
					YCAS216 YCAS222	YCAS236 YCAS240	YCAS246 YCAS250	YCAS216X YCAS316	YCAS236X YCAS336	YCAS266X YCAS366
^s 1	1	Valve, Therm Expan, Cooler	1	16, 20, 23	025-32906	025-32906	025-32906	025-32905	025-32906	025-32906
^s 2	1	Complete - Includes Power Head	2		025-32905	025-32906	025-32906	025-32905	025-32905	025-32906
3	1	Power Head, TXV	1	16, 20, 23	025-32837	025-32837	025-32837	025-32902	025-32837	025-32837
4	1		2		025-32902	025-32837	025-32837	025-32902	025-32902	025-32837
5	1	Dehydrator, Body	1	20, 22	026-16960	026-16960	026-16960	026-16960	026-16960	026-16960
6	1	(Replaceable Core)	2		026-16960	026-16960	026-16960	026-16960	026-16960	026-16960
^s 7	6	Dehydrator Core (Use with Items 5, 6)	1, 2	20, 22	026-18328	026-18328	026-18328	026-18328	026-18328	026-18328
8	2	Valve, Liquid Solenoid	1 2	16, 20, 23	025-28375 025-28375	025-28375 025-28375	025-28375 025-28375	025-28375 025-28375	025-28375 025-28375	025-28375 025-28375
9	1	Moisture Indicator, Body	1	23	026-32399	026-32399	026-32399	026-32398	026-32399	026-32399
10	1		2		026-32398	026-32399	026-32399	026-32398	026-32398	026-32399
11	2	Moisture Indicator, Cap Assembly	1, 2	23	026-32800	026-32800	026-32800	026-32800	026-32800	026-32800
12	2	Valve, Liquid Stop	1, 2	20, 22	022-08740	022-08740	022-08740	022-08740	022-08740	022-08740
13	2	Compressor	1, 2	3, 20						
14	1	Evaporator	—	20, 25						
15	4	Valve, Solenoid, Economizer	1, 2	16, 22	025-31771	025-31771	025-31771	025-31771	025-31771	025-31771
16	2	Valve, Therm Expan, Econ.	1, 2	16, 22	025-32845	025-32845	025-32845	025-32845	025-32845	025-32845
17	2	Valve, Therm Expan Motor Cool.	1, 2	16	025-32844	025-32844	025-32844	025-32844	025-32844	025-32844
18	2	Valve, Liquid Injection, Compr	1, 2	16, 21	025-32908	025-32908	025-32908	025-32908	025-32908	025-32908
19	2	Economizer	1, 2	20, 22	026-34418	026-34418	026-34418	026-34418	026-34418	026-34418
20	2	Valve, Relief, Oil Separator	1, 2	22	022-09547	022-09547	022-09547	022-09547	022-09547	022-09547
21	2	Valve, 3/8 Angle	1, 2	22	022-01582	022-01582	022-01582	022-01582	022-01582	022-01582
22	4	Valve, Ball, Oil Filter Isolation	1, 2	22	022-09172	022-09172	022-09172	022-09172	022-09172	022-09172
23	2	Oil Filter, Housing ²	1, 2	22	026-33897	026-33897	026-33897	026-33897	026-33897	026-33897
23A	2	Gasket/Seal, Oil Filter	1, 2	22	026-34465	026-34465	026-34465	026-34465	026-34465	026-34465
24	2	Element, Oil Filter	1, 2	22	026-32386	026-32386	026-32386	026-32386	026-32386	026-32386
25	2	Valve, Solenoid, Oil Supply	1, 2	22	025-28903	025-28903	025-28903	025-28903	025-28903	025-28903
26	2	Adaptor, Oil Supply 3/4 - 16 UNF	1, 2	NOTE 1	023-18241	023-18241	023-18241	023-18241	023-18241	023-18241
27	8	Isolator, Vibration Mount	1, 2	17	026-34417	026-34417	026-34417	026-34417	026-34417	026-34417

^sRecommended Stock Spare Part

(TABLE CONTINUED ON PAGES 19)

Note: 1. Not Shown

2. Complete housing includes 23A, 24

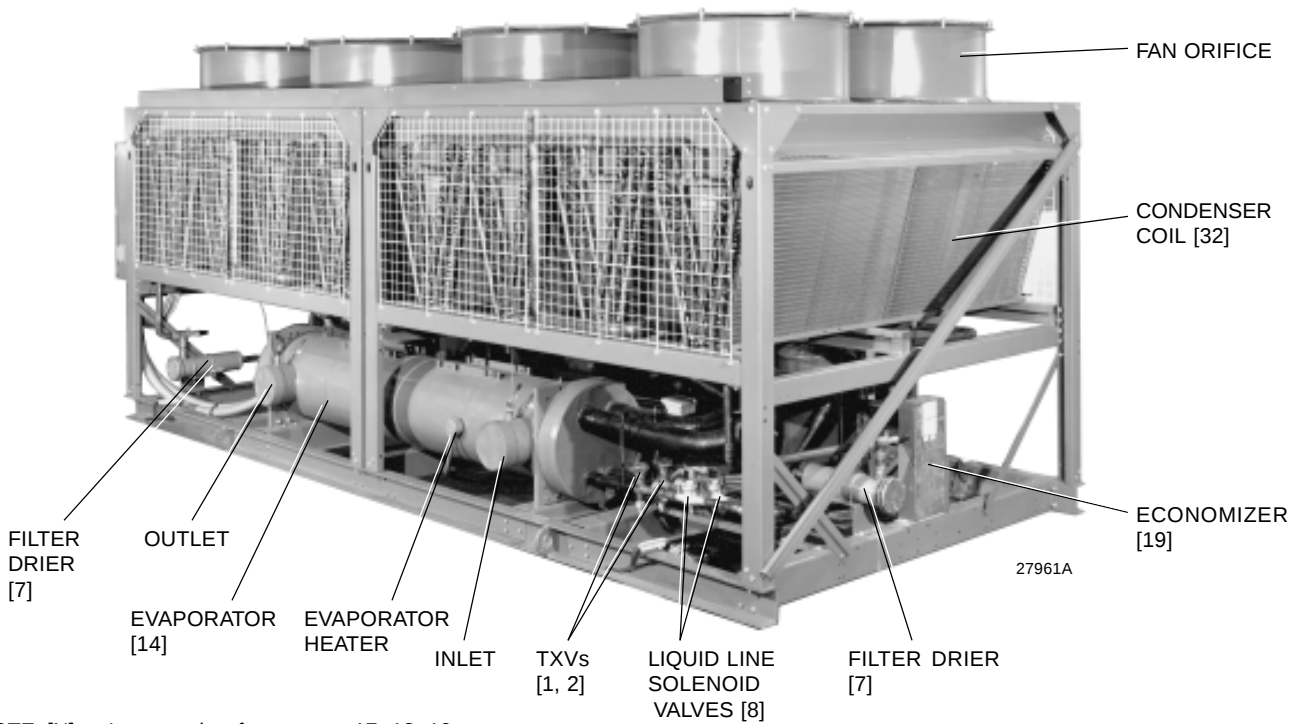
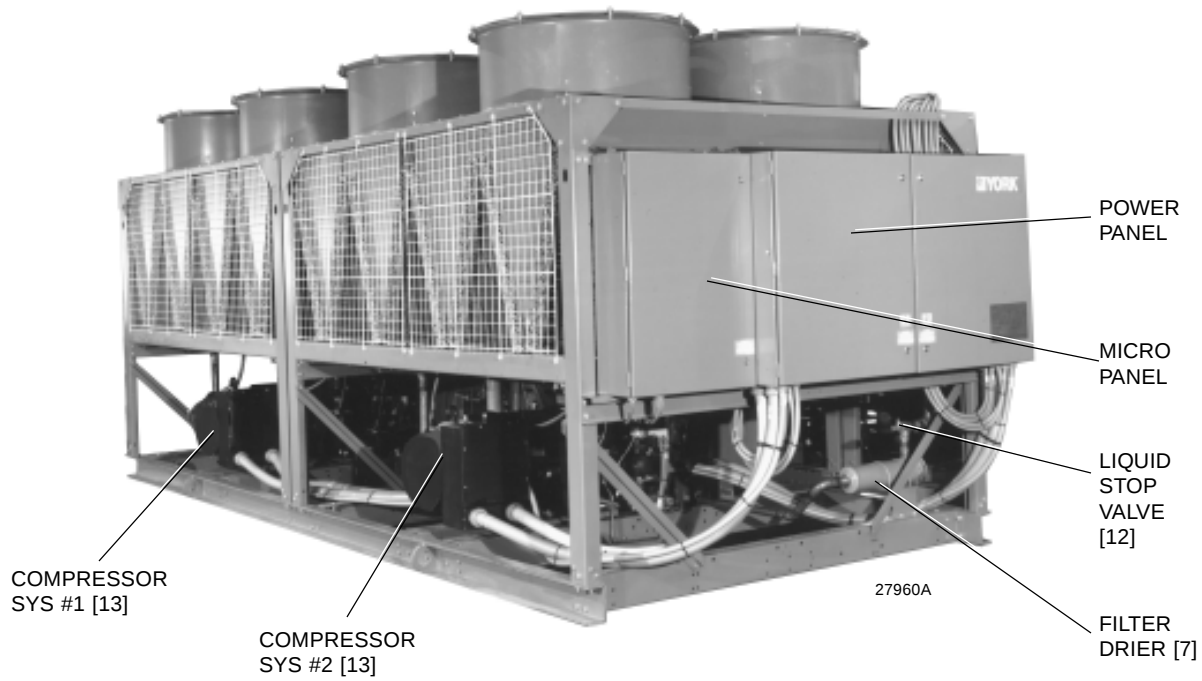


COILS, 4-ROW (Typical)

LD00235

REFRIGERANT SYSTEM COMPONENTS (Cont'd)

ITEM NO	QUANT/ MOD.	DESCRIPTION	SYSTEM NUMBER	SEE PAGE NO	UNIT MODEL					
					YCAS140	YCAS160	YCAS170	YCAS180	YCAS190	YCAS220
ALUMINUM FIN COILS — STANDARD										
28	4	Header, Discharge (R.H.)	1, 2	18, 20	375-18638	375-18638	375-18638	375-18638	375-18638	375-18638
29	4	Header, Discharge (L.H.)	1, 2		375-18637	375-18637	375-18637	375-18637	375-18637	375-18637
30	4	Header, Liquid (R.H.)	1, 2		375-18650	375-18650	375-18650	375-18650	375-18650	375-18650
31	4	Header, Liquid (L.H.)	1, 2		375-18652	375-18652	375-18652	375-18652	375-18652	375-18652
32	8	Coil, Condenser	1, 2		326-33838	326-33838	326-33838	326-33838	326-33838	326-33838
PHENOLIC-COATED COILS — OPTION										
28	4	Header, Discharge (R.H.)	1, 2	18, 20	375-20842	375-20842	375-20842	375-20842	375-20842	375-20842
29	4	Header, Discharge (L.H.)	1, 2		375-20841	375-20841	375-20841	375-20841	375-20841	375-20841
30	4	Header, Liquid (R.H.)	1, 2		375-20830	375-20830	375-20830	375-20830	375-20830	375-20830
31	4	Header, Liquid (L.H.)	1, 2		375-20832	375-20832	375-20832	375-20832	375-20832	375-20832
32	8	Coil, Condenser	1, 2		326-34426	326-34426	326-34426	326-34426	326-34426	326-34426
COPPER FIN COILS — OPTION										
28	4	Header, Discharge (R.H.)	1, 2	18, 20	375-18638	375-18638	375-18638	375-18638	375-18638	375-18638
29	4	Header, Discharge (L.H.)	1, 2		375-18637	375-18637	375-18637	375-18637	375-18637	375-18637
30	4	Header, Liquid (R.H.)	1, 2		375-18650	375-18650	375-18650	375-18650	375-18650	375-18650
31	4	Header, Liquid (L.H.)	1, 2		375-18652	375-18652	375-18652	375-18652	375-18652	375-18652
32	8	Coil, Condenser	1, 2		326-34424	326-34424	326-34424	326-34424	326-34424	326-34424
					UNIT MODEL					
					YCAS216	YCAS236	YCAS246	YCAS216X	YCAS236X	YCAS266X
					YCAS222	YCAS240	YCAS250	YCAS316	YCAS336	YCAS366
ALUMINUM FIN COILS — STANDARD										
28	4	Header, Discharge (R.H.)	1, 2	18, 20	375-18638	375-18638	375-18638	375-18638	375-18638	375-18638
29	4	Header, Discharge (L.H.)	1, 2		375-18637	375-18637	375-18637	375-18637	375-18637	375-18637
30	4	Header, Liquid (R.H.)	1, 2		375-18650	375-18650	375-18650	375-18650	375-18650	375-18650
31	4	Header, Liquid (L.H.)	1, 2		375-18652	375-18652	375-18652	375-18652	375-18652	375-18652
32	8	Coil, Condenser	1, 2		326-33838	326-33838	326-33838	326-33838	326-33838	326-33838
PHENOLIC-COATED COILS — OPTION										
28	4	Header, Discharge (R.H.)	1, 2	18, 20	375-20842	375-20842	375-20842	375-20842	375-20842	375-20842
29	4	Header, Discharge (L.H.)	1, 2		375-20841	375-20841	375-20841	375-20841	375-20841	375-20841
30	4	Header, Liquid (R.H.)	1, 2		375-20830	375-20830	375-20830	375-20830	375-20830	375-20830
31	4	Header, Liquid (L.H.)	1, 2		375-20832	375-20832	375-20832	375-20832	375-20832	375-20832
32	8	Coil, Condenser	1, 2		326-34426	326-34426	326-34426	326-34426	326-34426	326-34426
COPPER FIN COILS — OPTION										
28	4	Header, Discharge (R.H.)	1, 2	18, 20	375-18638	375-18638	375-18638	375-18638	375-18638	375-18638
29	4	Header, Discharge (L.H.)	1, 2		375-18637	375-18637	375-18637	375-18637	375-18637	375-18637
30	4	Header, Liquid (R.H.)	1, 2		375-18650	375-18650	375-18650	375-18650	375-18650	375-18650
31	4	Header, Liquid (L.H.)	1, 2		375-18652	375-18652	375-18652	375-18652	375-18652	375-18652
32	8	Coil, Condenser	1, 2		326-34424	326-34424	326-34424	326-34424	326-34424	326-34424
BLACK FIN COILS — OPTION										
28	4	Header, Discharge (R.H.)	1, 2	18, 20	375-18638	375-18638	375-18638	375-18638	375-18638	375-18638
29	4	Header, Discharge (L.H.)	1, 2		375-18637	375-18637	375-18637	375-18637	375-18637	375-18637
30	4	Header, Liquid (R.H.)	1, 2		375-18650	375-18650	375-18650	375-18650	375-18650	375-18650
31	4	Header, Liquid (L.H.)	1, 2		375-18652	375-18652	375-18652	375-18652	375-18652	375-18652
32	8	Coil, Condenser	1, 2		326-34422	326-34422	326-34422	326-34422	375-34422	326-34422



NOTE: [N] – Item number from pages 17, 18, 19

MAJOR UNIT COMPONENTS

SLIDE VALVE CONTROL
SOLENOID [14] PG. 4

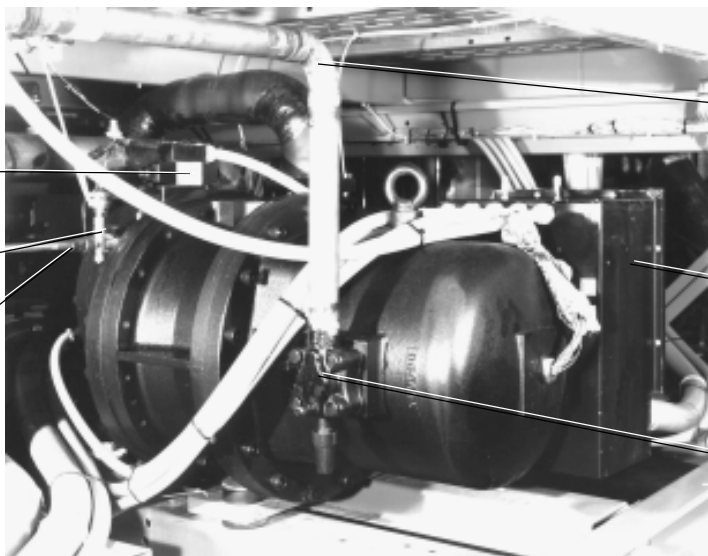
OIL PRESSURE
TRANSDUCER

OIL INJECTION
PIPING

ECONOMIZER
PIPING

MOTOR
TERMINAL
BOX

ECONOMIZER
SERVICE
VALVE



27973A

SUCTION PRESSURE
TRANSDUCER

MOTOR TERMINAL
BOX

EVAPORATOR

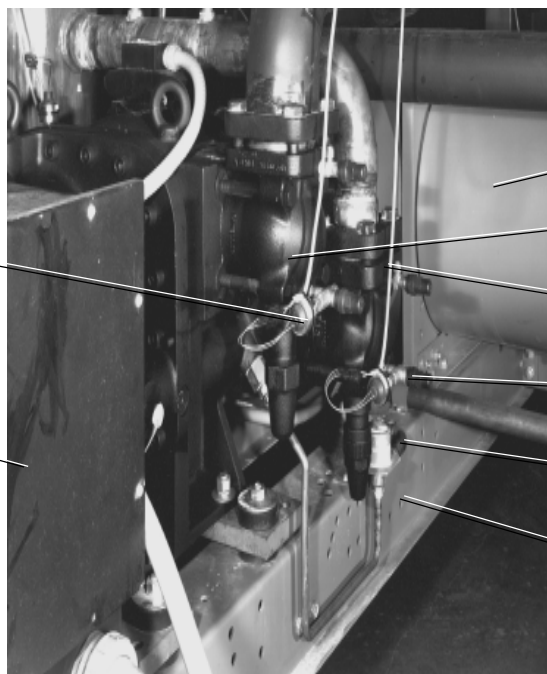
SUCTION
SERVICE
VALVE

DISCHARGE
SERVICE
VALVE

DISCHARGE
PRESSURE
TRANSDUCER

LIQUID INJECTION
SOLENOID VALVE
[18] PG. 17

LIQUID INJECTION
PIPING



27974A

SUCTION
SERVICE
VALVE

DISCHARGE
SERVICE
VALVE

DISCHARGE
PRESSURE
TRANSDUCER

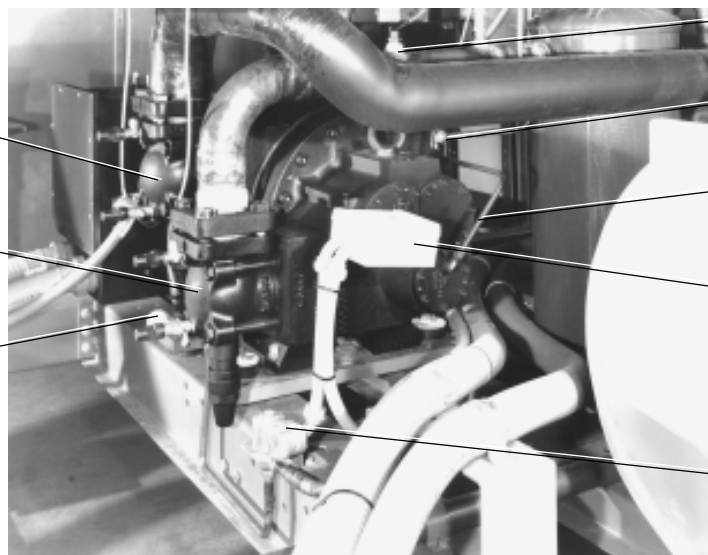
DISCHARGE
TEMPERATURE
SENSOR

OIL INJECTION
PIPING

SLIDE VALVE
PISTON OIL
SUPPLY/VENT LINE

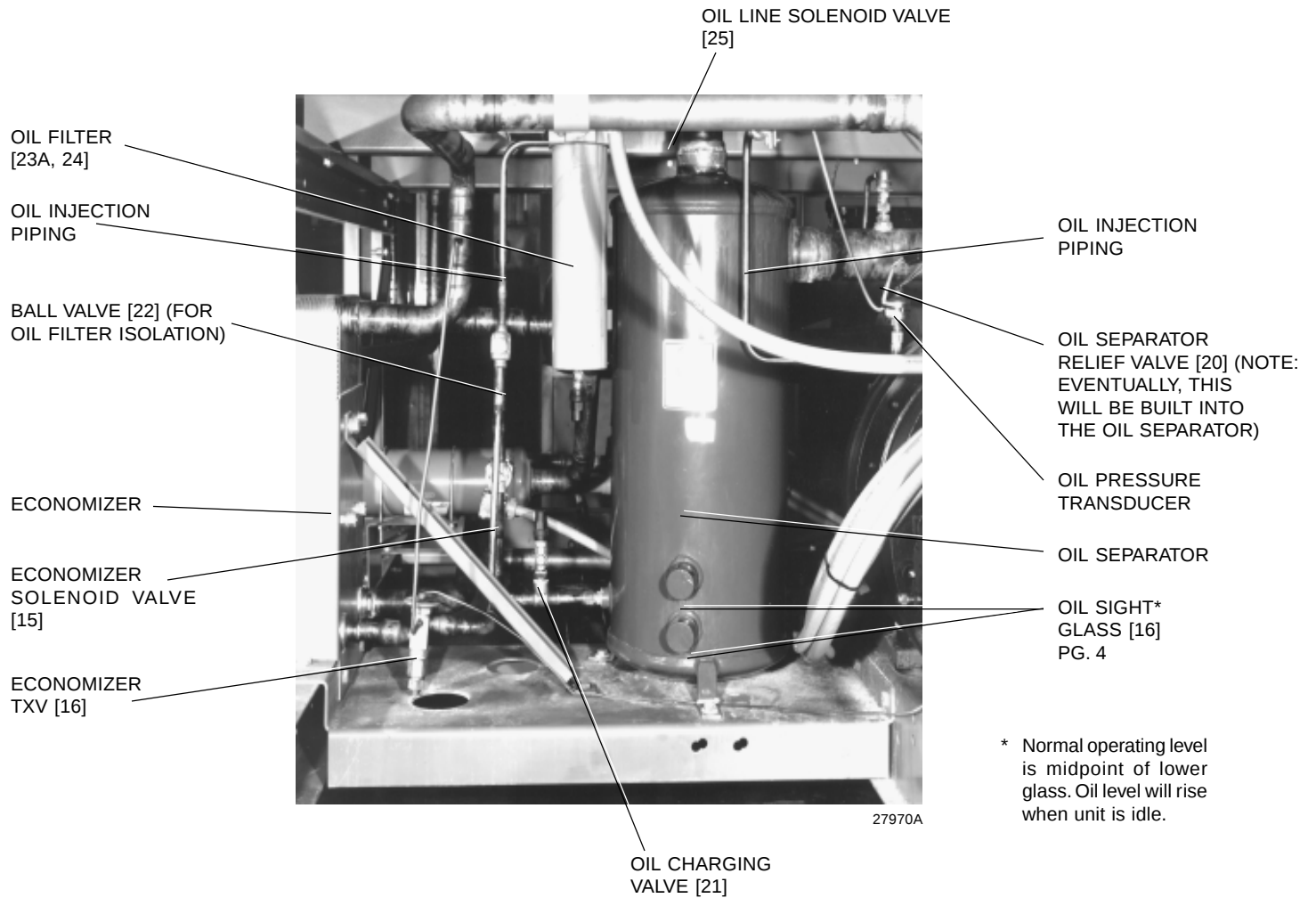
OIL HEATER
ELECTRICAL
JUNCTION BOX

LIQUID INJECTION
SOLENOID VALVE
[18] PG. 17



27972A

NOTE: [N] = Item Number from Pages 17, 18



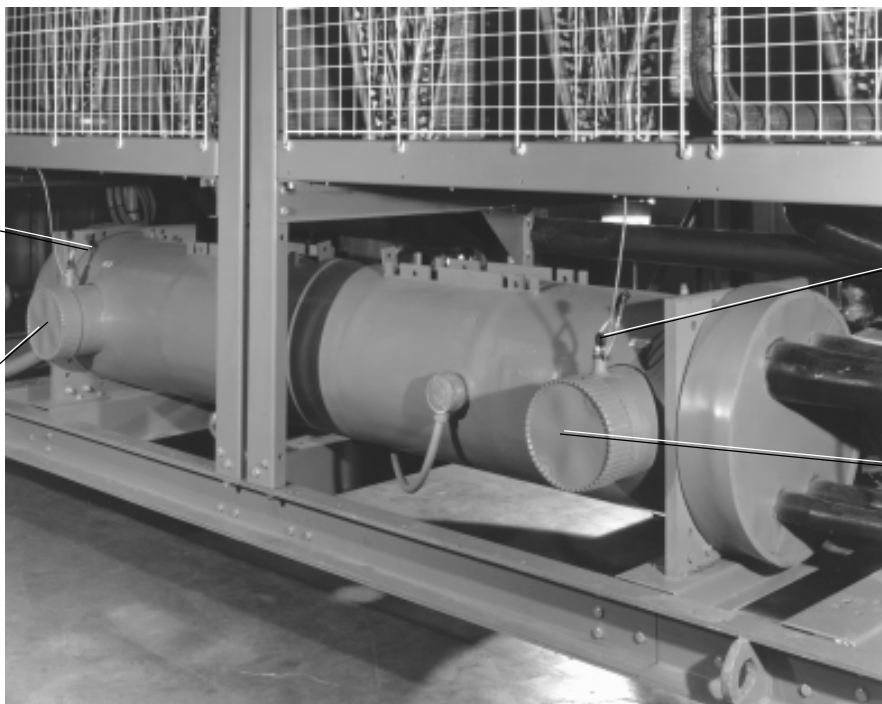
NOTE: [N] = Item Number from Pages 17, 18

LEAVING WATER
TEMPERATURE
SENSOR

EVAPORATOR
OUTLET

RETURN WATER
TEMPERATURE
SENSOR

EVAPORATOR
INLET



27967A

SYS 1 TXV
[1]

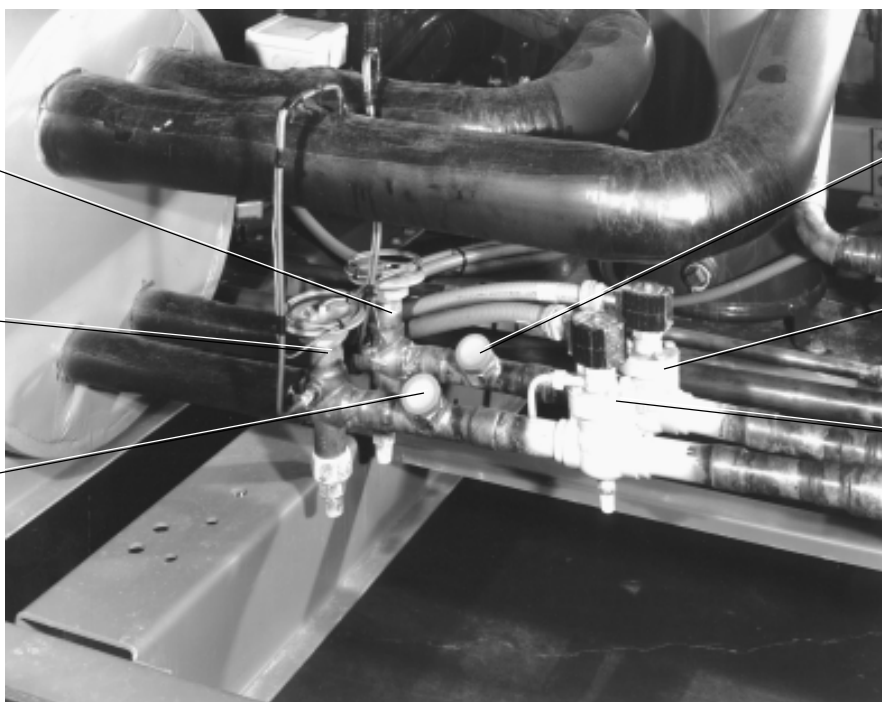
SYS 2 TXV
[2]

SYS 2
SIGHT GLASS
[10, 11]

SYS 1 SIGHT
GLASS
[9, 11]

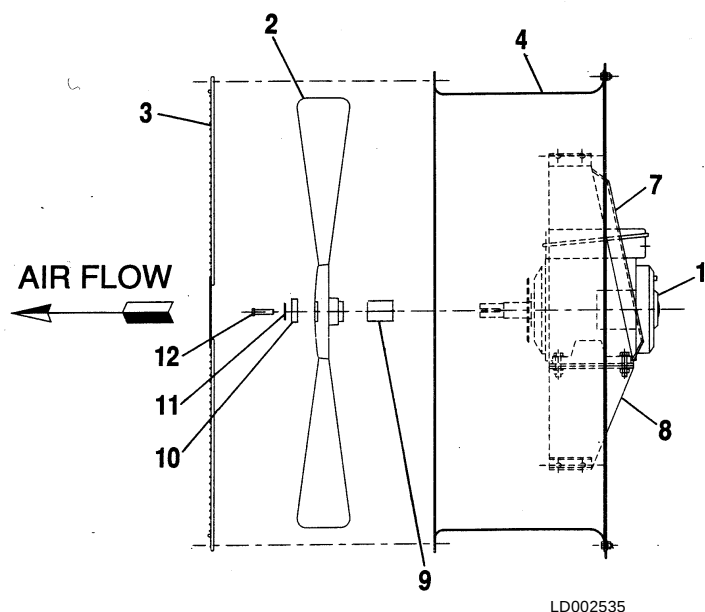
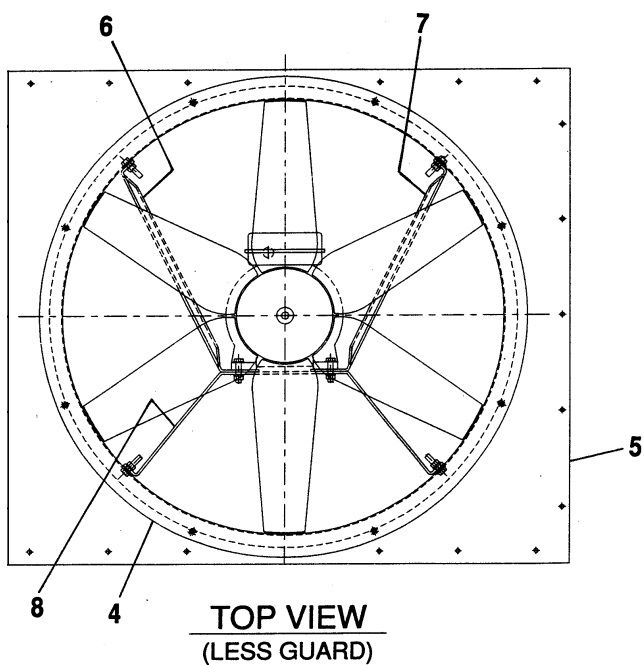
SYS 1 LIQUID
LINE SOLENOID
VALVE [8]

SYS 2 LIQUID
LINE SOLENOID
VALVE [8]



27968A

NOTE: [N] = Item Number from Pages 17, 18

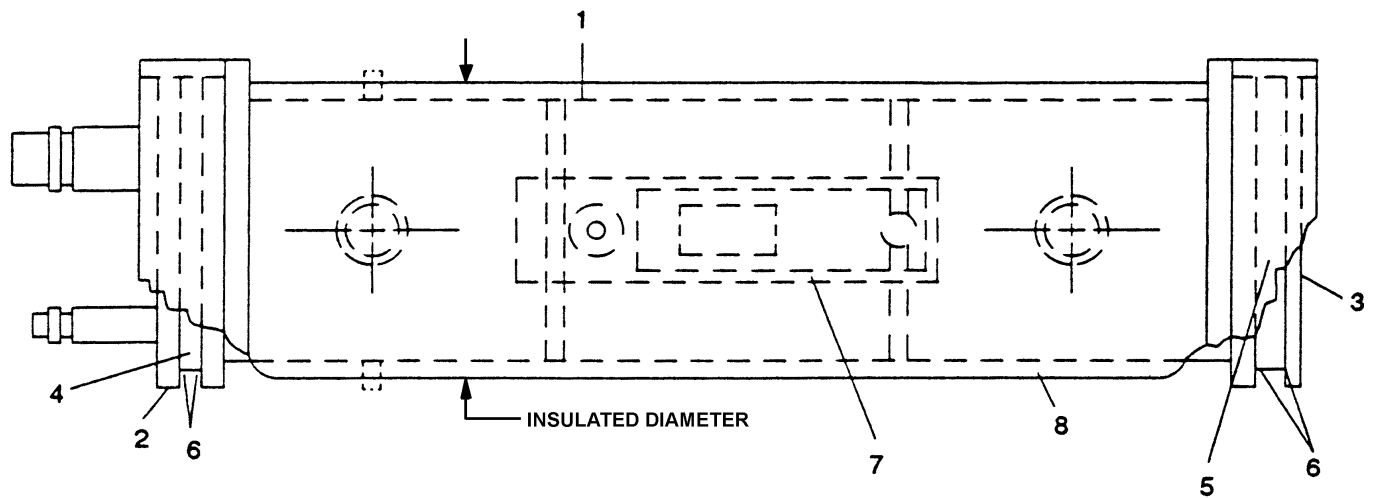


LD002535

FAN (Typical)

FAN COMPONENTS

ITEM NUMBER	DESCRIPTION	VOLTAGE CODE	FAN TYPE	
			STANDARD	LOW NOISE (Option)
1	Motor	-17	024-25179-002	024-25247-002
		-28	024-25179-002	024-25247-002
		-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	Sleeve	ALL	026-33612-000	Not Required
10	Sleeve	ALL	026-33616-000	026-33617-000
11	Washer	ALL	021-05146-000	021-01288-000
12	Screw, Cap	ALL	021-17791-000	021-18019-000



LD00234

COOLER COMPONENTS

ITEM NO.	QUAN. PER UNIT	DESCRIPTION	DWP	UNIT MODEL		
				YCAS160 ¹		YCAS170, YCAS180, YCAS190, YCAS220, YCAS216, YCAS222, YCAS236, YCAS240, YCAS246, YCAS250, YCAS216X, YCAS236X, YCAS266X
					YCAS140	
				COOLER SIZE		
				16DX	18DX	20DX
1	1	Cooler, Less Insulation & Heater (Includes Items 2 thru 6)	150#	375-17511-000	375-17513-000	375-17517-000
			300#	Not Applicable	375-21139-000	375-21143-000
2	1	Head, Connection End	ALL	375-18009-000	375-18011-000	375-17058-000
3	1	Head, Back End	ALL	375-18008-000	375-18103-000	375-17057-000
4	1	Pass Baffle, Connection End	ALL	375-17085-000	375-18024-000	375-17059-000
5	1	Pass Baffle, Back End	ALL	375-17084-000	075-18022-000	075-17049-000
^s 6 ²	4	Gasket, Pass Baffle and Head	ALL	375-17082-000	075-18023-000	075-17050-000
^s 7	1	Heater	ALL	025-22690-000	—	—
	025-22691-000			—	—	
	—			025-22691-000	025-22691-000	
8	3	Insulation, 3/4" x 49" x 65"	ALL	010-04198-000	010-04198-000	010-01498-000

NOTES:

- YCAS160 may have either 16DX or an 18DX Cooler. To determine which, measure the shell diameter:

16DX – Bare Diameter = 17-3/4"; Circumference = 55-3/4"
 Insulated Diameter = 19-1/4"; Circumference = 60"

18DX – Bare Diameter = 19-1/4"; Circumference = 60"
 Insulated Diameter = 20-3/4"; Circumference = 65"

- When replacing gasket, Item 6, use:

^s Sealer, Gasket, 013-02827-000
^s Primer, 013-01753-000

^s Recommended Stock Spare Part

REPLACEMENT COMPONENTS FOR UNIT OPTIONS

ITEM NO.	QUANT/ UNIT	DESCRIPTION		VOLT CODE	ALL MODELS	UNIT MODEL		
						YCAS140	YCAS160	YCAS170
A	1	SERVICE SWITCH	Switch, Disconnect	-17		—	—	—
				-28		—	—	—
				-40		—	—	—
				-46		024-27241	024-27241	024-27241
				-58		024-27241	024-27241	024-27241
B	1	UNIT-MOUNTED SERVICE SWITCH & FUSES	Switch, Disconnect	-17		024-27242	024-27243	—
				-28		024-27242	024-27242	024-27243
				-40		024-27241	024-27242	024-27242
				-46		024-27241	024-27241	024-27241
				-58		024-27241	024-27241	024-27241
C	3		Fuse, Disconnect (System 1)	-17		025-32530	025-32530	—
				-28		025-32529	025-32530	025-32530
				-40		025-32525	025-32527	025-32528
				-46		025-32524	025-32525	025-32526
				-58		025-32523	025-32524	025-32525
D	3		Fuse, Disconnect (System 2)	-17		025-32530	025-32530	—
				-28		025-32529	025-32530	025-32530
				-40		025-32525	025-32527	025-32527
				-46		025-32524	025-32525	025-32526
				-58		025-32523	025-32524	025-32525
E	1	UNIT-MOUNTED CIRCUIT BREAKERS	Circuit Breaker (System 1)	-17		024-27229	024-27230	024-27231
				-28		024-27228	024-27229	024-27230
				-40		024-27221	024-27223	024-27289
				-46		024-27216	024-27221	024-27222
				-58		024-27212	024-27216	024-27216
F	1		Circuit Breaker (System 2)	-17		024-27229	024-27230	024-27230
				-28		024-27228	024-27229	024-27229
				-40		024-27221	024-27223	024-27245
				-46		024-27216	024-27221	024-27221
				-58		024-27212	024-27216	024-27216
G	1	CONTROL TRANSFORMER	Transformer	-17	025-29627-001			
				-28	025-29627-002			
				-40	025-29627-003			
				-46	025-29627-002			
				-58	025-29627-004			
H	2		Fuse, Transformer	-17	025-27509-015			
				-28	025-28967-000			
				-40	025-27972-000			
				-46	025-27971-000			
				-58	025-30962-000			
I	1	FLOW CONTROL SWITCH	Switch, Flow 150 Psi 300 Psi	ALL ALL	024-26116-000 024-12144-000			
J	1	BAS INTERFACE	Control, Remote Reset	ALL	031-00814-000			
K	2	CHICAGO CODE	Valve, Relief	ALL	022-08863-000			
L	1	MUFFLER KIT	Adaptor	ALL	028-18225-000			
M	1		O-Ring	ALL	028-12961-004			

UNIT MODEL								
YCAS180	YCAS190	YCAS220	YCAS216 YCAS222	YCAS236 YCAS240	YCAS246 YCAS250	YCAS216X	YCAS236X	YCAS266X
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
024-27242	024-27242	024-27242	024-27242	024-27242	024-27242	024-27242	024-27242	024-27242
024-27241	024-27241	024-27242	024-27242	024-27242	024-27242	024-27241	024-27242	024-27242
—	—	—	—	—	—	—	—	—
024-27243	024-27243	—	—	—	—	—	—	—
024-27242	024-27242	024-27242	024-27242	024-27242	024-27242	024-27242	024-27242	—
024-27242	024-27242	024-27242	024-27242	024-27242	024-27242	024-27242	024-27242	024-27242
024-27241	024-27241	024-27242	024-27242	024-27242	024-27242	024-27241	024-27242	024-27242
—	—	—	—	—	—	—	—	—
025-32530	025-32530	—	—	—	—	—	—	—
025-32528	025-32529	025-32530	025-32530	025-32530	025-32530	025-32529	025-32530	—
025-32526	025-32527	025-32529	025-32529	025-32529	025-32529	025-32528	025-32529	025-32529
025-32525	025-32525	025-32527	025-32527	025-32527	025-32528	025-32526	025-32526	025-32528
—	—	—	—	—	—	—	—	—
025-32530	025-32530	—	—	—	—	—	—	—
025-32528	025-32528	025-32529	025-32529	025-32530	025-32530	025-32528	025-32529	—
025-32526	025-32526	025-32528	025-32527	025-32529	025-32529	025-32526	025-32528	025-32529
025-32525	025-32525	025-32526	025-32526	025-32527	025-32528	025-32525	025-32526	025-32528
024-27231	024-27231	—	—	—	—	—	—	—
024-27230	024-27231	—	—	—	—	—	—	—
024-27289	024-27228	024-27229	024-27229	024-27229	024-27230	024-27228	024-27229	—
024-27222	024-27223	024-27228	024-27228	024-27228	024-27228	024-27223	024-27228	024-27228
024-27216	024-27221	024-27223	024-27223	024-27223	024-27223	024-27221	024-27223	024-27223
—	—	—	—	—	—	—	—	—
024-27231	024-27231	—	—	—	—	—	—	—
024-27230	024-27230	—	—	—	—	—	—	—
024-27289	024-27289	024-27228	024-27228	024-27229	024-27230	024-27228	024-27245	024-27228
024-27222	024-27222	024-27245	024-27245	024-27228	024-27228	024-27222	024-27245	024-27228
024-27216	024-27216	024-27221	024-27221	024-27223	024-27223	024-27216	024-27221	024-27223

KEY: — is Not Applicable.

NOTES:

Parts listed on Pages 26 and 27 are for Single Replacement Parts contained in the Option Kits.

Parts contained in the Option Kits.

Part Numbers provided ARE NOT Part Number for complete Option Kits.

YORK PART EQUIVALENTS¹ FOR COMPRESSOR FITTINGS YCAS

ITEM NO.	YORK			EQUIVALENT SOURCE		
	DESCRIPTION	FROM LIST. PAGE	PART NUMBER		DESCRIPTION	MANUFACTURER
1	Valve, Transducer	14	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	14	022-00009-000	7761B	Angle Stop Valve, 1/4 NPTE x 1/4 Flare Packed Non-Back-seat., Brass or Primore 22214-A	Henry Valve Co.
				A-11031		Mueller Refrig. Prod Co.
3	Adaptor, Mounting	14	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	14	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)	14	028-13540-000	—	O-Ring, .351 ID x .072 Sect. (1/4 Fitting) AS-568-904 ³ , Neoprene-1	AQM ²
6	Bushing	14	023-18052-000	—	Bushing, 1/8NPTE x 1/4 NPTI, Brass	AQM ²
7	Adaptor, Muffler Kit Oil Return Line	26	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)	26	028-12961-004	—	O-Ring, .644 ID x .087 Sect. (1/2 Fitting), AS-568-908 ³ , Neoprene-1	AQM ²

NOTE:

- 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.
- AQM = Any Quality Management (e.g. Mueller Refrigeration Products Co., Parker-Hannifin Corp.)
- 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).



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