

YORK®

**PACKAGED LIQUID CHILLERS
AIR COOLED — RECIPROCATING HERMETIC**

RENEWAL PARTS

Supersedes: 150.40-RP20 (887)

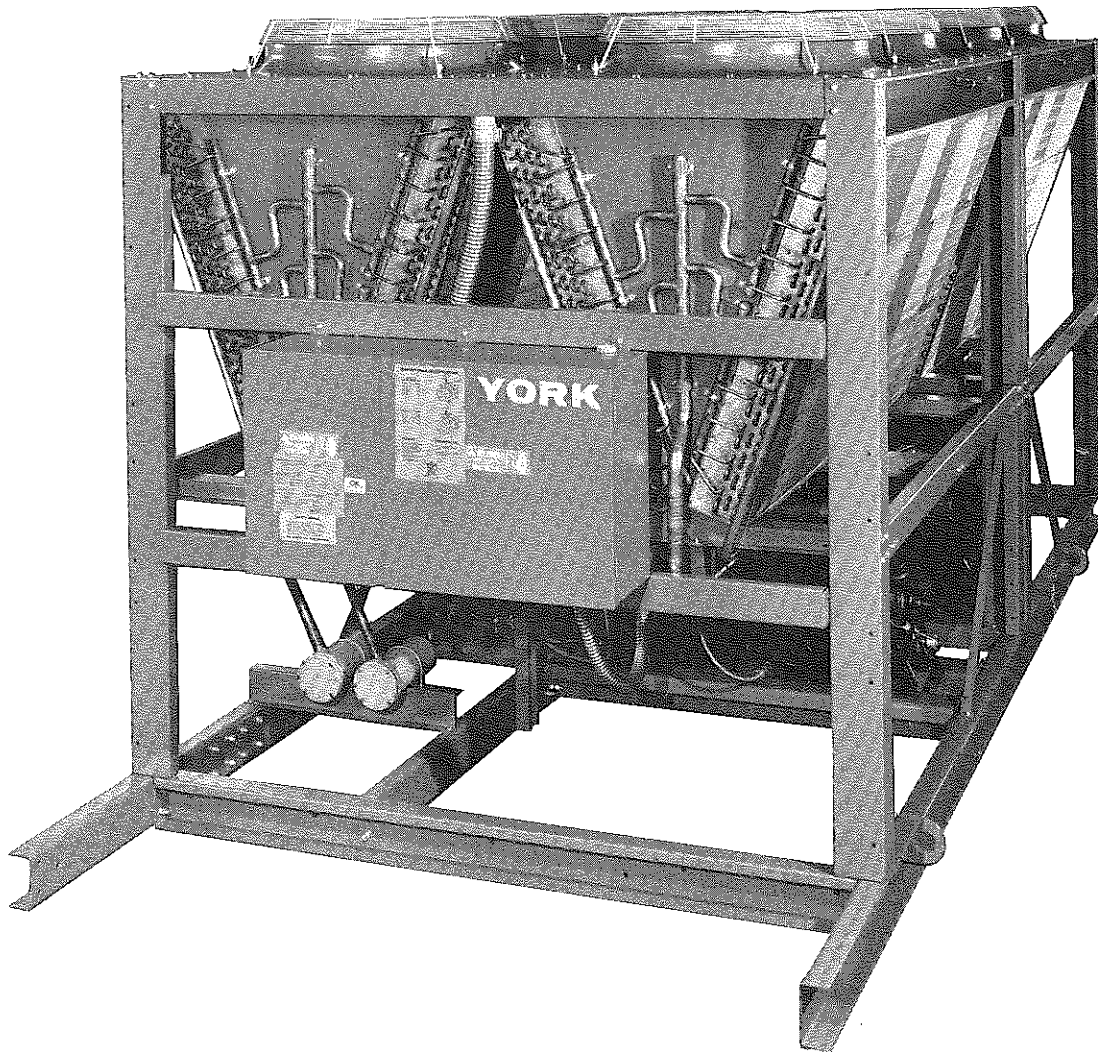
388

Form 150.40-RP20

**MODELS YCAQ10, YCAM12, YCAK14, YCAI16, YCAG18
YCAR11, YCAN13, YCAL15, YCAJ17 & YCAH19**

ALSO

**MODELS YCHA100, 120, 150, 175 & 200
STYLE C***



***WITH MICROPROCESSOR CONTROL PANEL**

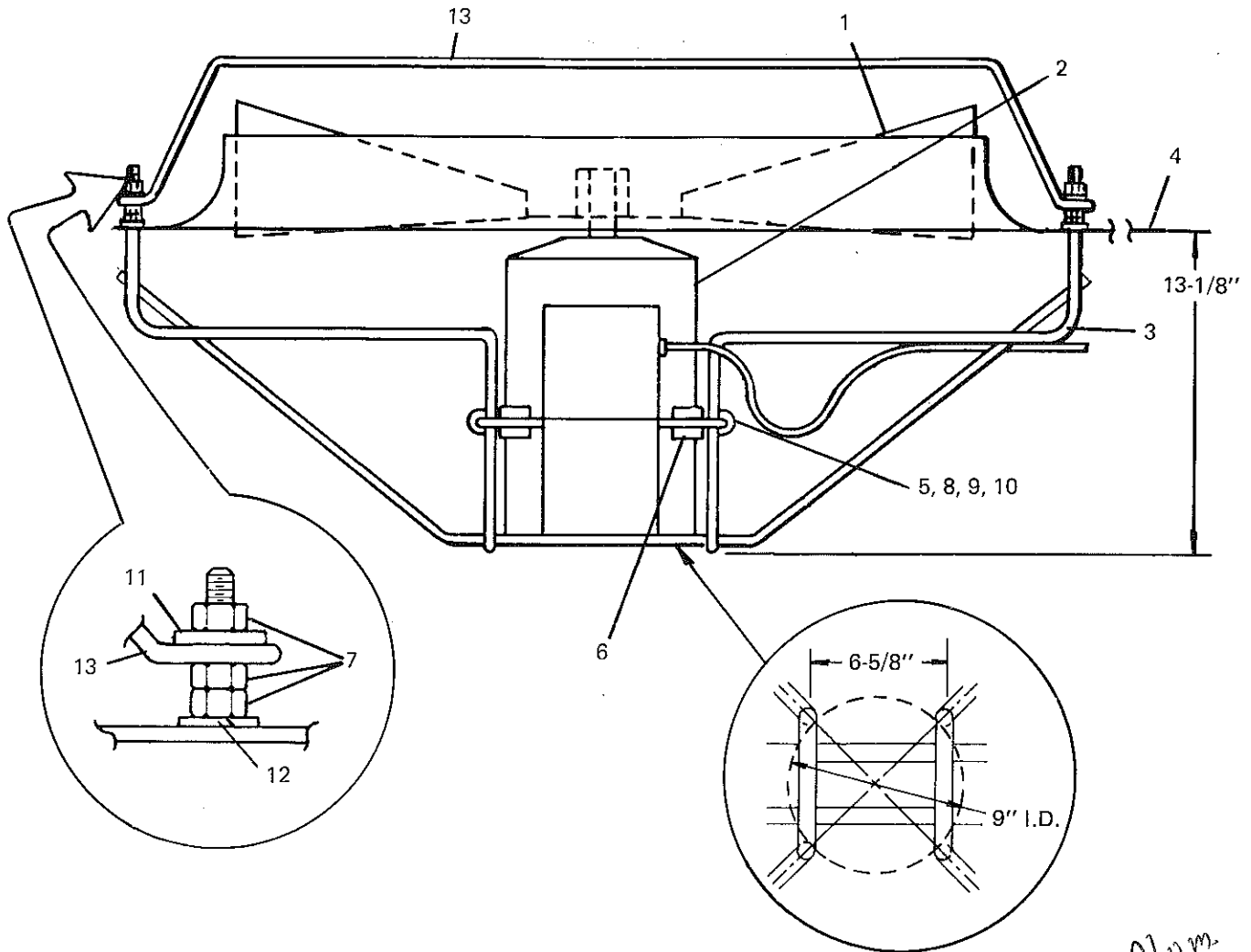
WITH G.E. II. 4 EPROM (MODEL YCHA100)

WITH G.E. II. 3 EPROM (MODELS YCHA120 THRU 200)

WITH G.E. II. 5 EPROM (MODELS YCHA120 THRU 200)

NOTE

Fan assemblies on these chillers are of three different designs. These designs are shown in Figs. 1, 1A & 1B. Before ordering replacement parts, it will be necessary to visually inspect the unit and compare the fan design with those illustrated. Reference dimensions are included with each illustration to help to identify the assembly.



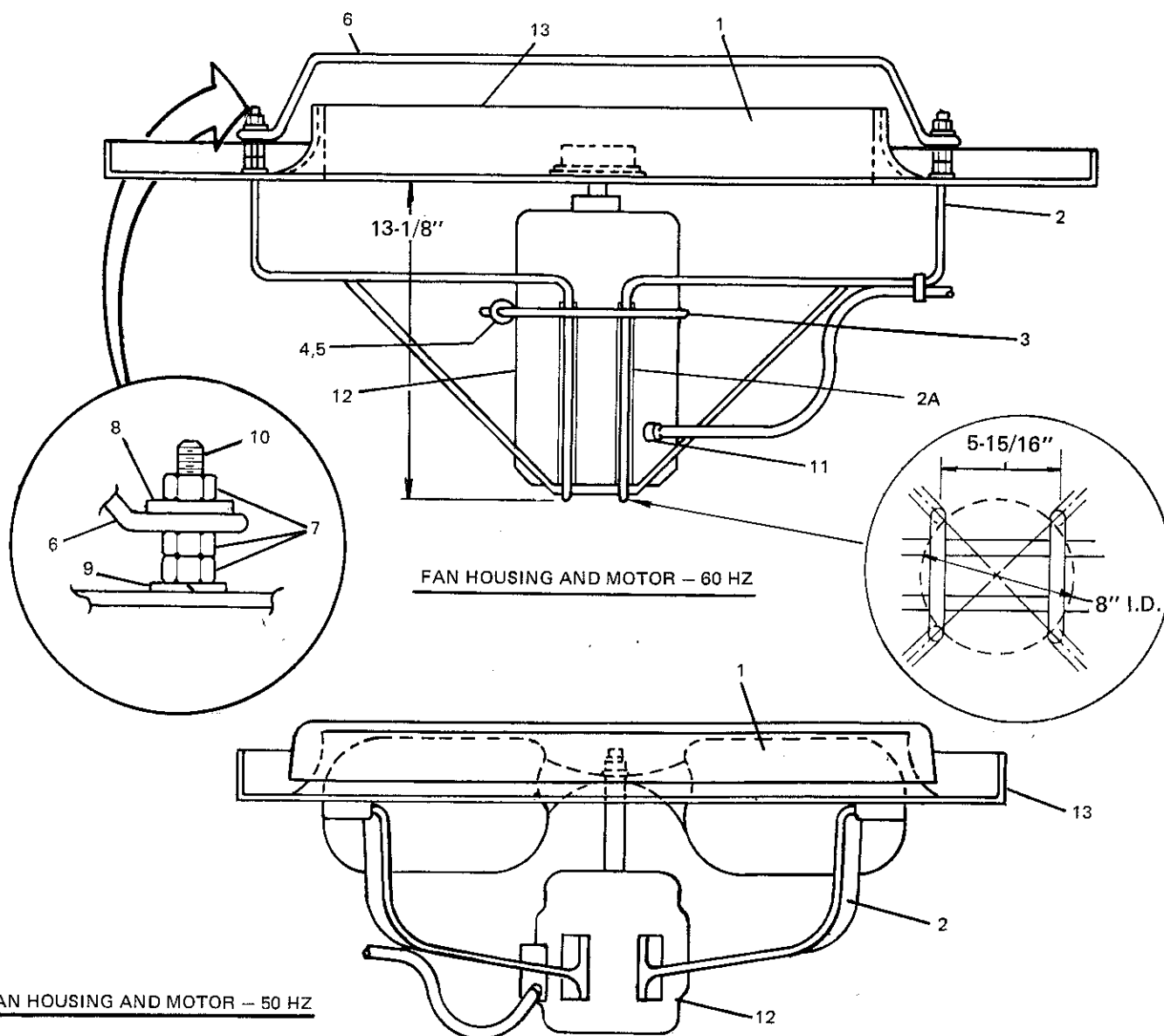
Item No.	Description	Part Number
⑤ 1	Blade, Fan	026-24096
⑤ 2	Motor, Fan	024-24062-000
⑤ 3	Support, Motor	026-29597
4	Housing, Fan	066-90474
⑤ 5	Clamp	026-29595
⑤ 6	Spacer	066-92446
7	Nut Hex 3/8"	021-16139
8	Nut, 5/16 - 18	021-14794-007
9	Washer, Plain 5/16" I.D. x 3/4" O.D.	021-16165
10	"U" Bolt	026-29596
11	Washer Plain 13/32" I.D. x 13/16" O.D.	021-16135*
12	Lockwasher, 3/8"	021-16164A
13	Guard, Fan	026-24582

*Alum.
4 blades
30"*

*All Models except YCHA120-17/32" I.D. x 11/16" O.D., Part Number 021-16132.

FIG. 1 — FAN COMPONENTS (LEROY SOMMERS MOTORS)

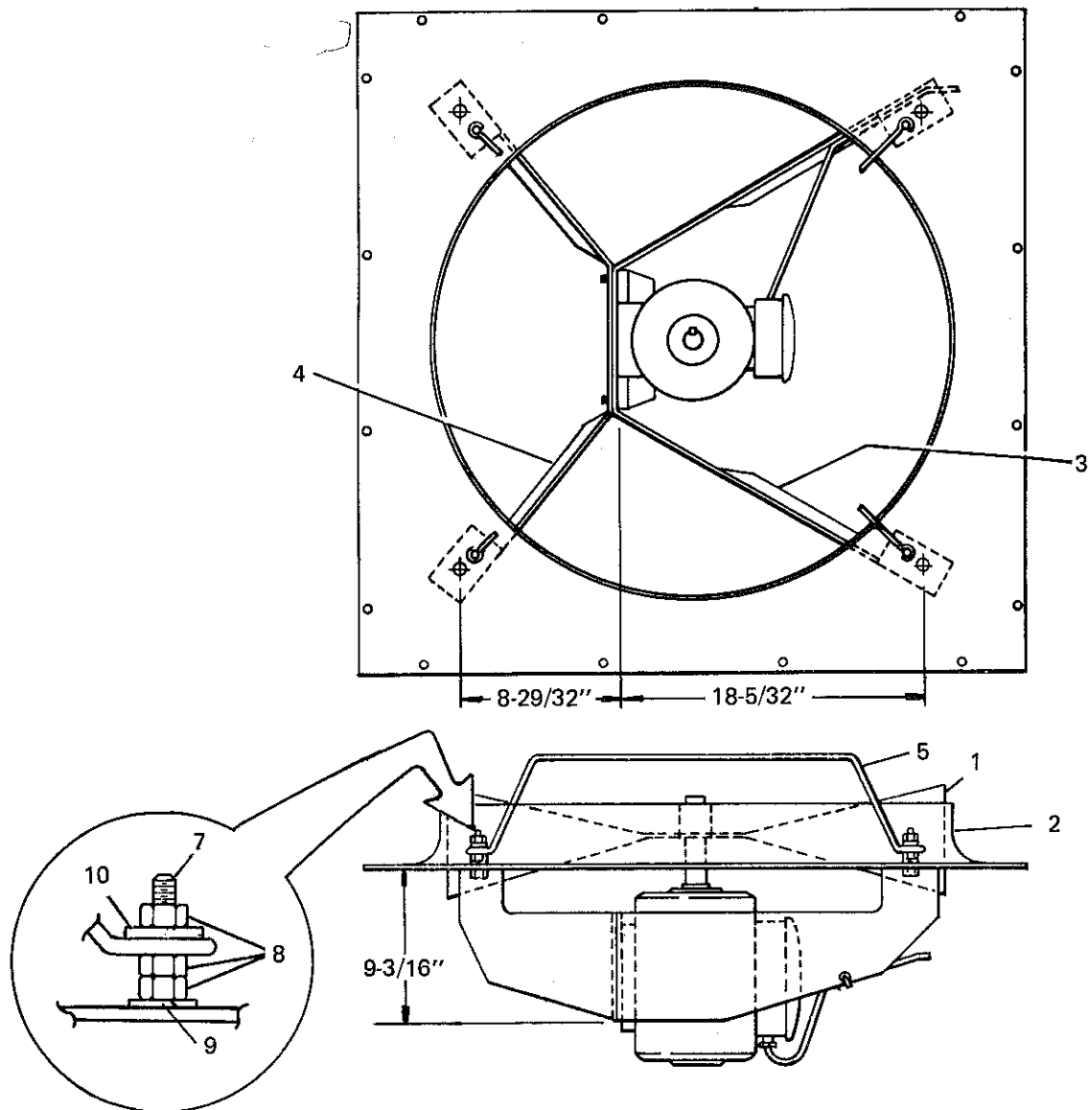
The symbol ⑤ preceding an item indicates recommended spare part.



Item No.	Description	Part Number	
		60 HZ	50 HZ
①	Blade, Fan	026-24096	026-28185
②	Support, Motor	026-24097	026-28186 (Kit)
2A	Spacer	066-89938	—
3	Clamp	026-25055	—
4	Nut	021-14794-007	—
5	Washer	021-16165	—
6	Guard, Fan	026-24582	026-24582
7	Nut, Hex	021-16139	021-16139
8	Washer, Plain	021-16132	021-16132
9	Washer, Lock	021-16164	027-16158
10	Screw, Cap	—	021-16511
11	Ring, Sealing	025-09613	—
⑫	Motor, Fan*	024-21740 <i>3hp</i> All Voltages	024-23163 All Voltages
13	Housing, Fan	066-90474	066-90474

*60 HZ — Reliance Motor *50 HZ — G.E.C. Machines Motor

FIG. 1A — FAN COMPONENTS



50 HZ

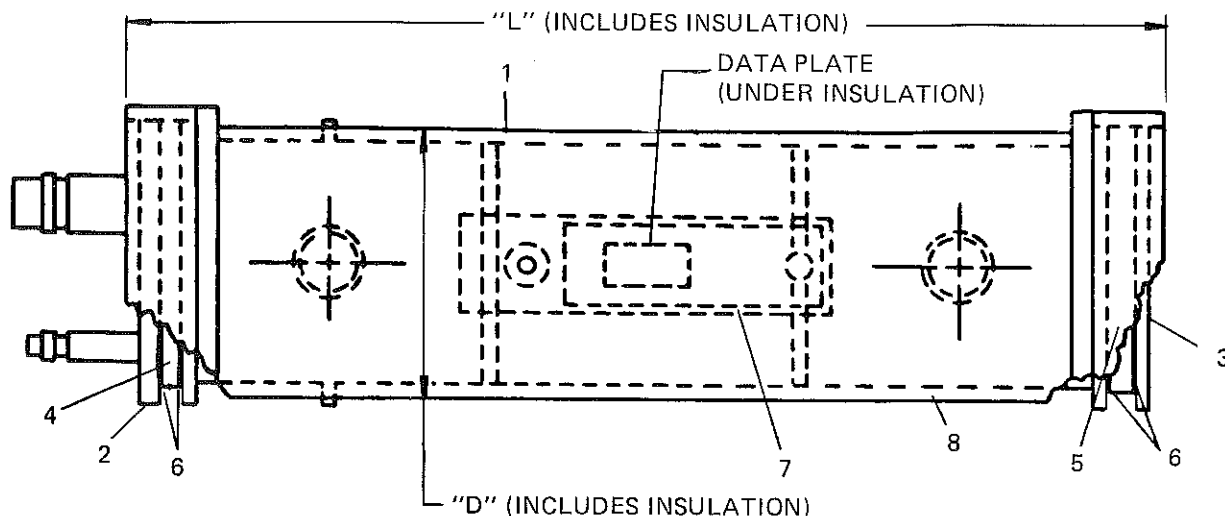
Item No.	Description	Part Number
© 1	Blade, Fan 50 HZ 60 HZ	026-30886 026-30885
2	Housing, Fan	066-90474
3	Support, Motor	066-94583
4	Support, Motor	066-94584
5	Guard	026-24582
© 6	Motor 50 HZ 60 HZ	024-24610 024-24610
7	Screw, 3/8" x 1-3/4"	021-16511
8	Nut, Hex	021-16139
9	Lockwasher	021-16158
10	Washer, Plain	021-16135

Alum
s blades

FIG. 1B — FAN COMPONENTS

NOTE

Coolers on these chillers are of three different designs. These designs are shown in Figs. 2, 2A & 2B. Parts for these coolers are not interchangeable. Before ordering replacement parts, it will be necessary to visually inspect and measure the cooler and compare the dimensions with those shown on the illustrations accompanying each parts table. In cases where it is not possible to identify the coolers from the dimensions, it will be necessary to obtain the National Board Number from the cooler data plate, and the Serial Number from the unit data plate. Then contact the YORK Service Department for assistance.



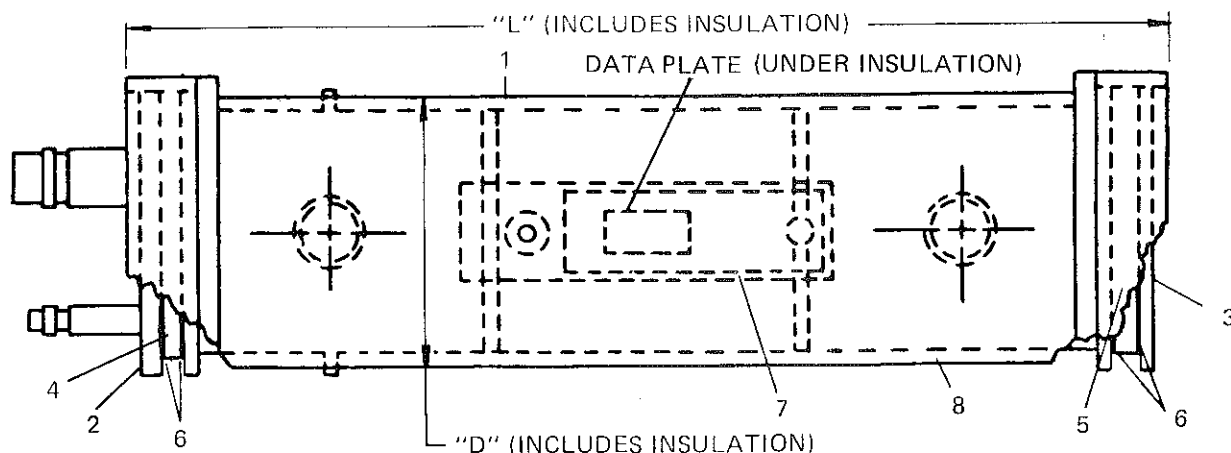
Item	Description		YCAQ10 YCAR11 YCHA100	YCAM12 YCAN13 YCHA120	YCAK14 YCAL15 YCHA150	YCAI16 YCAJ17 YCHA175	YCAG18 YCAH19 YCHA200
		Dimensions	D L	D L	D L	D L	D L
1	Cooler (Less Insulation)		16-3/8"	16-3/8"	16-3/8"	18-3/8"	19-1/4"
2	Head, Connection End		92"	104"	104"	104-1/4"	116-1/4"
3	Head, Back End						
4	Baffle, Pass (Conn.)						
5	Baffle, Pass (Back)						
6*	Gasket, Baffle (4 Req'd)						
7	Heater						
8	Insulation						

*Use when replacing Gasket (Item 6):

Primer 013-01753

Sealer, Gasket 013-02827

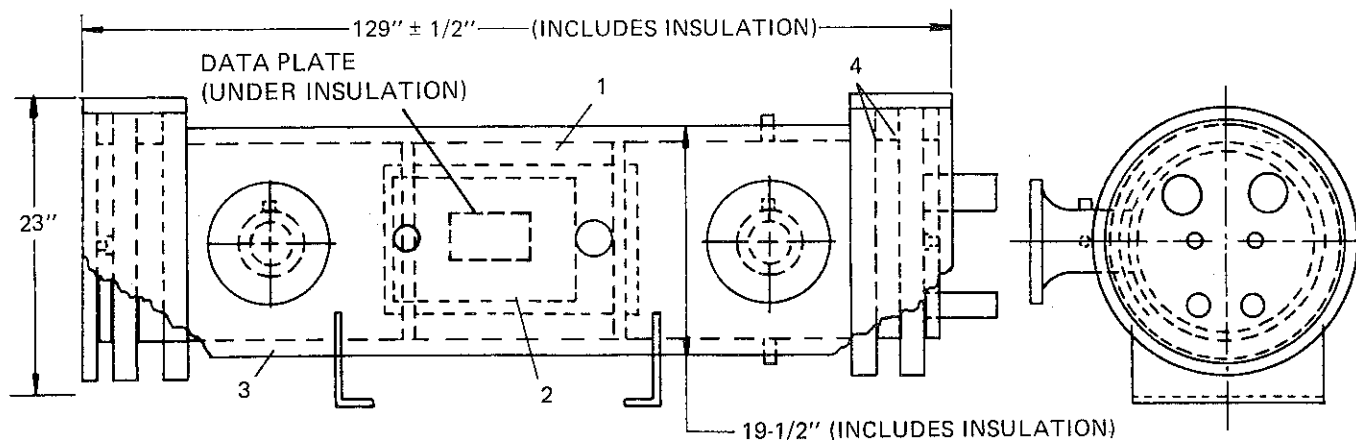
FIG. 2 — COOLER COMPONENTS



Item	Description		YCAQ10 YCAR11 YCHA100	YCAM12 YCAN13 YCHA120	YCAK14 YCAL15 YCHA150	YCAI16 YCAJ17 YCHA175
		D	15-1/8"	16-3/8"	18-3/8"	18-3/8"
	Dimensions	L	91-3/4"	104"	104-1/4"	104-1/4"
1	Cooler (Less Insulation)	NOT AVAILABLE				
2	Head, Connection End		366-87808	366-87741	366-87602	366-87602
3	Head, Back End		366-87767	366-87740	366-87596	366-87596
4	Baffel, Pass (Conn.)		366-87775	366-87743	366-87714	366-87621
5	Baffel, Pass (Back)		066-87773	066-87751	066-87713	066-87634
⑥ 6*	Gasket, Baffel (4 Req'd)		066-87777	066-87750	066-87637	066-87637
7	Heater		025-22690 (2 Req'd)	025-22692	025-22690 025-22691	025-22690 025-22691
8	Insulation		010-04198 (2 Sheets)	010-04198 (3 Sheets)	010-04198 (3 Sheets)	010-04198 (3 Sheets)

*Use when replacing Gasket (Item 6):
 ⑥ Primer 013-01753
 ⑥ Sealer Gasket 013-02827

FIG. 2A — COOLER COMPONENTS

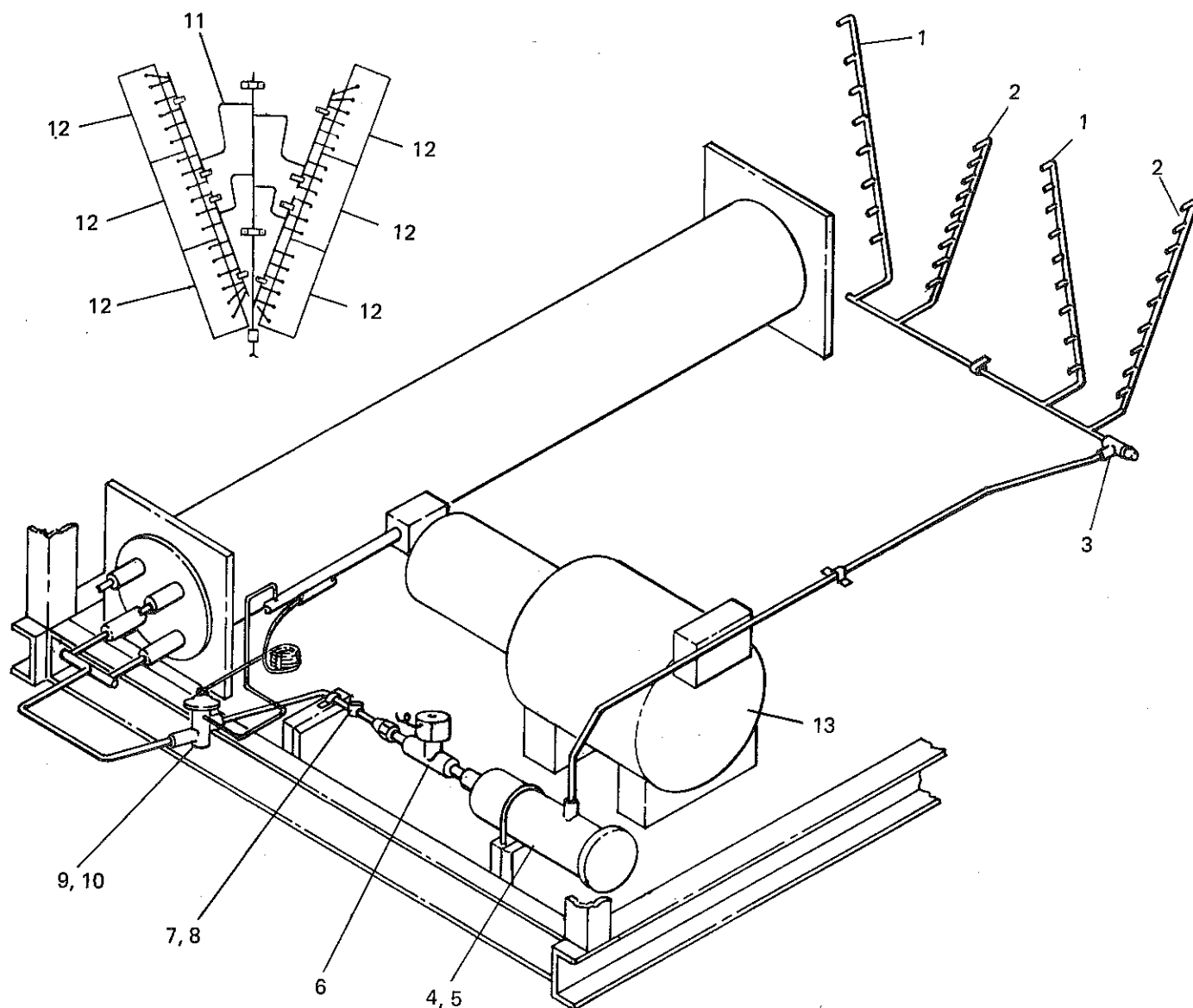


Item No.	Description	YCHA200, YCAG18, YCAH19
1	Cooler, Less Insulation	Contact York Factory
2	Heater (2 Req'd)	025-22691
3	Insulation	010-04198 (4 Sheets)
④ 4*	Gasket (4 Req'd)	028-10942

*Use when replacing Gasket (Item 4):
 ④ Primer 013-01753
 ④ Sealer, Gasket 013-02827

Contact YORK Factory Service for cooler parts not listed above.

FIG. 2B — COOLER COMPONENTS

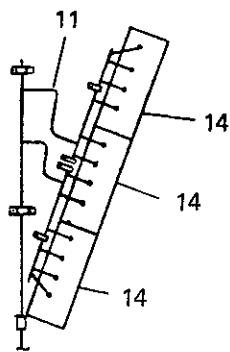


Item No.	Description	Part Number
1	Header, Liquid (R.H.) (2 Req'd)	366-92386
2	Header, Liquid (L.H.) (2 Req'd)	366-92384
3	Valve, Liquid Stop	022-03044
4	Dehydrator, Body	026-16966 026-16960-000
⑤ 5	Dehydrator, Cartridge (3 Req'd)	026-18328
6	Valve, Liquid Solenoid	025-26950
6A**	Kit, Solenoid Valve	025-27993
7	Body, Moisture Indicator	026-20147
8	Cap Assembly, Moisture Indicator	026-16958
9	Valve Thermal Expansion	025-25944
⑩ 10	TXV Power Assembly Kit	025-25999
11	Header, Discharge	366-89109
12	Coil, 6 Row (12 Per Unit)	026-29609
13	Compressor (50 Hz) JS83*S	*
	Compressor (60 Hz) JS84*T	*

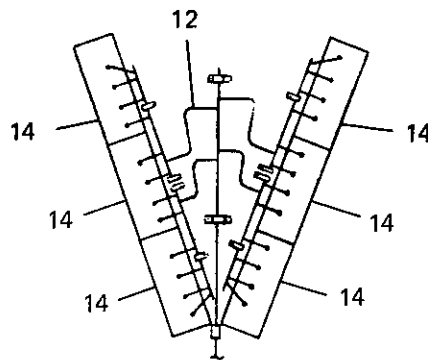
*Compressor may be Style D or E. For Style D compressor, refer to Form 180.23-RP1. For Style E compressor, refer to Form 180.23-RP3. If ordering replacement compressor, be sure to match number of unloading solenoids with original compressor.

**To be used if present solenoid valve is sticking.

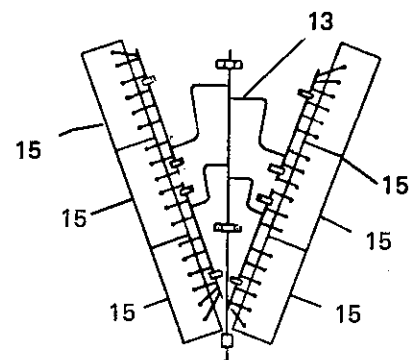
FIG. 3 — REFRIGERANT PIPING, YCAQ13, YCAR11, YCHA100



YCAM12
YCAN13
YCHA120 (ONLY)



YCAM12, YCAK14, YCAJ16
YCAN13, YCAL15, YCAJ17
YCHA120 - 175



YCAQ10, YCAI16, YCAG18
YCAR11, YCAJ17, YCAH19
YCHA100, YCHA175, YCHA200

COIL*	YCAQ10 YCAR11 YCHA100	YCAM12 YCAN13 YCHA120		YCAK14 YCAL15 YCHA150		YCAI16 YCAJ17 YCHA175		YCAG18 YCAH19 YCHA200	
		Sys. 1	Sys. 2	Sys. 1	Sys. 2	Sys. 1	Sys. 2	Sys. 1	Sys. 2
4-ROW		X	X	X	X	X			
6-ROW	X						X	X	X

ADDITIONAL HEADER
FOR 150, 175 & 200 UNITS

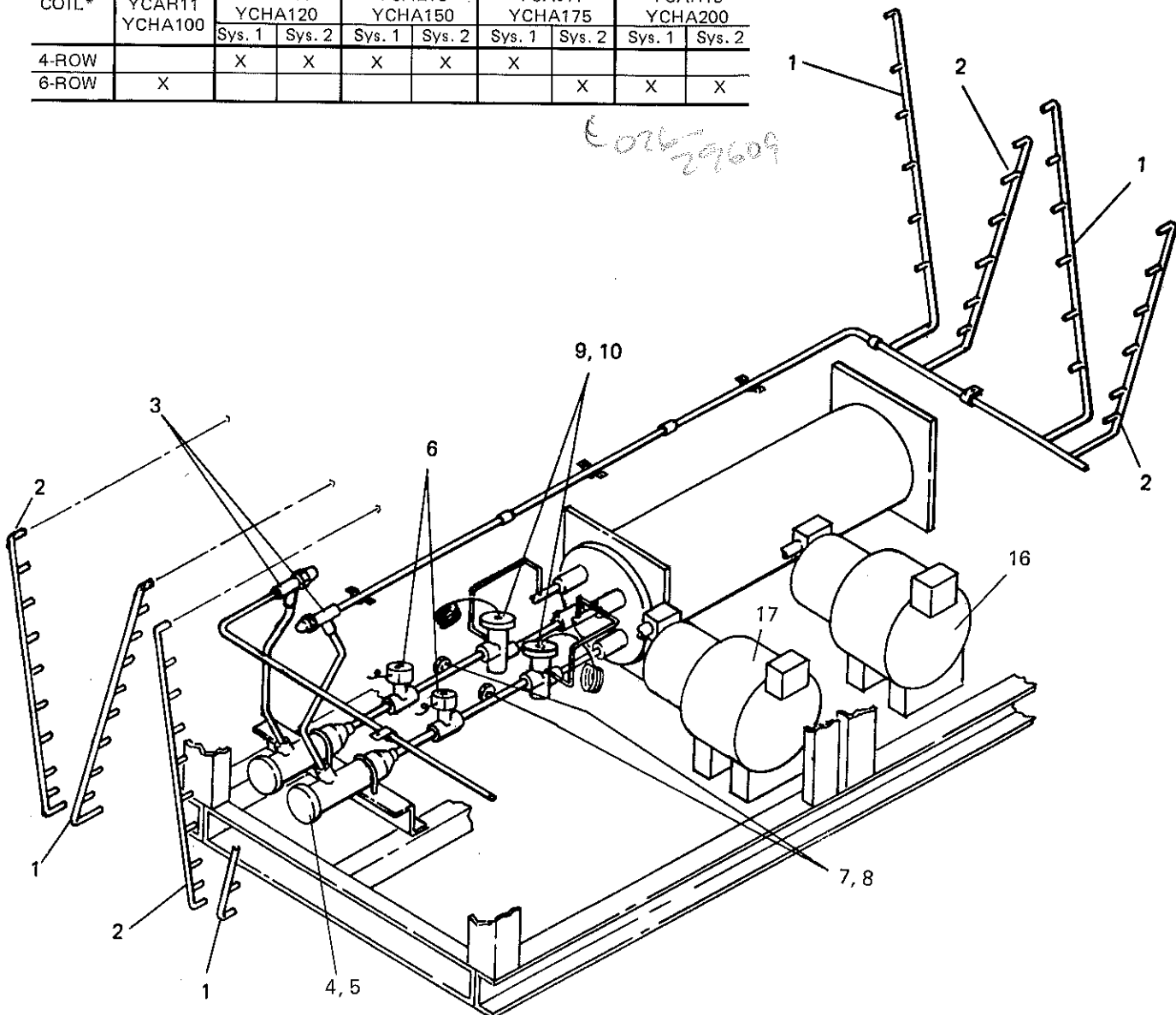


FIG. 4 — REFRIGERANT PIPING

REFRIGERANT PIPING

Item No.	Description	YCAM12, YCAN13, YCHA120		YCAK14, YCAL15, YCHA150	
		System 1	System 2	System 1	System 2
1	Header, Liquid (R.H.)	366-92387 (2 Req'd)	366-92387 (2 Req'd)	366-92387 (2 Req'd)	366-92387 (2 Req'd)
2	Header, Liquid (L.H.)	366-92385 (1 Req'd)	366-92385 (2 Req'd)	366-92385 (2 Req'd)	366-92385 (2 Req'd)
3	Valve, Liquid Stop	366-93075	366-93521	366-93075	366-93521
4	Dehydrator, Body	026-21055		026-21055	
⑤ 5	Dehydrator, Cartridge	026-18328 (4 Req'd)		026-18328 (4 Req'd)	
6	Valve, Liquid Solenoid	025-27488		025-27488	
6A**	Kit, Solenoid Valve	025-27992		025-27992	
7	Body, Moisture Indicator	026-20147		026-20147	
8	Cap Assembly, Moisture Indicator	026-16958		026-16958	
9	Valve, Thermal Expansion	025-23211	025-21955	025-21955	
⑨ 10	TXV Power Assembly, Kit	025-21960		025-21960	
11	Header, Discharge	366-90420	—	—	—
12	Header, Discharge	—	366-89108	366-89108	366-89108
13	Header, Discharge	—	—	—	—
14	Coil, 4 Row	026-29608	026-29608	026-29608	026-29608
15	Coil, 6 Row	—	—	—	—
16	Compressor (50 Hz)	JS44*P	—	JS64*S	—
16	Compressor (60 Hz)	JS43*M	—	JS63*P	—
17	Compressor (50 Hz)	—	JS64*S	—	JS64*S
17	Compressor (60 Hz)	—	JS63*P	—	JS63*P

Item No.	Description	YCAI16, YCAJ17, YCHA175		YCAG18, YCAH19, YCHA200	
		System 1	System 2	System 1	System 2
1	Header, Liquid (R.H.)	366-92387 (2 Req'd)	366-92387 (2 Req'd)	366-92386 (2 Req'd)	366-92386 (2 Req'd)
2	Header, Liquid (L.H.)	366-92385 (2 Req'd)	366-92384 (2 Req'd)	366-92384 (2 Req'd)	366-92384 (2 Req'd)
3	Valve, Liquid Stop	366-93075	366-93076	066-93201	066-93200
4	Dehydrator, Body	026-21055	026-16960	026-16960	
5	Dehydrator, Cartridge	026-18328 (5 Req'd)		026-18328 (6 Req'd)	
⑤ 6	Valve, Liquid Solenoid	025-27488	025-26950	025-26950	
6A**	Kit, Solenoid Valve	025-27992	025-27993	025-27993	
7	Body, Moisture Indicator	026-20147		026-20147	
8	Cap Assembly, Moisture Indicator	026-16958		026-16958	
9	Valve, Thermal Expansion	025-21955	025-25944	025-25944	
⑨ 10	TXV Power Assembly, Kit	025-21960	025-25999	025-25999	
11	Header, Discharge	—	—	—	
12	Header, Discharge	366-89108	—	—	—
13	Header, Discharge	—	366-89109	366-89109	366-89109
14	Coil, 4 Row	026-29608	4 Row —	026-29609	6 Row
16	Compressor (50 Hz)	JS64*S	—	JS84*T	—
16	Compressor (60 Hz)	JS63*P	—	JS83*S	—
17	Compressor (50 Hz)	—	JS84*T	—	JS84*T
17	Compressor (60 Hz)	—	JS83*S	—	JS83*S

*Compressor may be Style D or E. For Style D compressor, refer to Form 180.23-RP1. For Style E compressor, refer to Form 180.23-RP3. If ordering replacement compressor, be sure to match number of unloading solenoids with original compressor.

**To be used if present solenoid valve is sticking.

COMPRESSOR CONTACTORS ®

UNIT		NO. REQ'D	CONTACTOR PART NUMBER
YCAQ10, YCAR11, YCHA100	-17	2	025-27411
	-28	2	025-27411
	-40	2	025-27410
	-46	2	025-27410
	-50	2	025-27410
	-64	2	025-27411
YCAM12, YCAN13, YCHA120	-17	4	025-27411
	-28	4	025-27411
	-40	4	025-27409
	-46	4	025-27409
	-50	4	025-27409
	-64	4	025-27410
YCAK14, YCAL15, YCHA150	-17	4	025-27411
	-28	4	025-27411
	-40	4	025-27409
	-46	4	025-27409
	-50	4	025-27409
	-64	4	025-27410

UNIT	NO. REQ'D	CONTACTOR PART NUMBER	
YCAI16, YCAJ17, YCHA175	-17	4	025-27411
	-28	4	025-27411
	-40	4	025-27410
	-46	4	025-27410
	-50	4	025-27410
	-64	4	025-27411
YCAG18 YCAH19, YCHA200	-17	4	025-27411
	-28	4	025-27411
	-40	4	025-27410
	-46	4	025-27410
	-50	4	025-27410
	-64	4	025-27411

ABB
EATON

UNIT CONTROLS

Description	Part Number
Motor Current Board (MCB)	031-00817
⑤ Relay (for Relay Output Board and Run Permissive (R.P.) Relay)	025-27402
T2 Transformer	025-25135
.2 : 200 C.T. (Current Transformer)	025-27405
.2 : 300 C.T. (Current Transformer) <i>27.0</i>	025-27406
.2 : 400 C.T. (Current Transformer) <i>35.0</i>	025-27407
.2 : 500 C.T. (Current Transformer) <i>41.0</i>	025-27408
⑤ H.P. Cut-Out, 395 Lb.	025-26945
⑤ Discharge Pressure Transducer, 0-400 Lb.	025-25580-000
⑤ Oil or Suction Pressure Transducer, 0-200 Lb.	025-25927-000
⑤ RWT or LWT Sensor	025-25195
⑤ Loading Solenoid Coil	025-16572-005
⑤ Fan Contactor	025-27540
Micro Logic Board	031-00805
Relay Output Board	031-00769
Analog, Input Board	031-00772-001
Digital Input Board	031-00802
Power Supply Board	031-00777
Run Permissive (R.P.) Relay Board	031-00942
Outside Ambient (OAT) Sensor	025-27509-100
⑤ Fuse — 13 FU (15 amp)	025-25584
⑤ Fuse — 14 FU (8 amp)	025-27509-013
⑤ RC Suppressor	025-27800
⑤ Fan Fuse (30 amp)	025-27699
Temperature Sensor (1TH)	025-27622
Vilter Isolator (for discharge pressure transducer)	026-30229

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