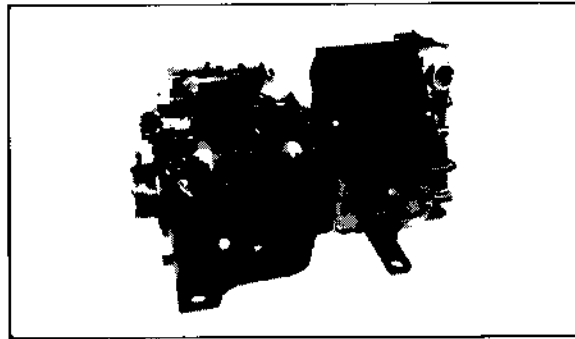


"4R" SERIES COPELAMETIC® COMPRESSOR PARTS LIST



FIELD REPLACEMENT PARTS

Part Description	Part Number	Model Series
Valve Plate Kit	998-0661-00	4RA-7½ & 10HP
Valve Plate Kit	998-0661-49	4RL
Valve Plate Kit	998-0661-51	4RH,4RK
Valve Plate Kit	998-0661-52	4RA-20HP;4RE
Valve Plate Kit	998-0661-60	4RJ,4RR
Gasket Kit	998-0669-00	4RA,4RE
Gasket Kit	998-0669-54	4RH,4RK,4RL
Gasket Kit	998-0669-55	4RJ,4RR
Gaskets:		
Cylinder Head	020-0629-00	All
Valve Plate to Body	020-0626-00	4RA,4RE
Valve Plate to Body	020-0627-00	4RH,4RK,4RL
Valve Plate to Body	020-0628-01	4RJ,4RR
Flat Bottom Plate	020-0634-00	All
Extended Bottom Plate	020-0635-00	4R*5,4RJ2,4RR2
Housing Cover	020-0636-00	All
Stator Cover	020-0637-00	All
Terminal Plate	020-0638-00	All
Oil Pump	020-0641-00	All
Unloader Valve	020-0671-00	4RE,4RK,4RR
Standard Cylinder Head	002-0015-00	All (except 4RJ,4RR)
Standard Cylinder Head	002-0185-00	4RJ,4RR
Capacity Control Head Assy.**	998-0119-20	4RE2,4RK2
Capacity Control Head Assy.**	998-0119-21	4RR
Flat Bottom Plate	003-0094-00	All
Extended Oil Sump Kit	998-1314-00	4R*5,4RJ2,4RR2
Stator Cover Kit	998-1311-00	4RA3-7½,10,20HP; 4RA5-7½HP;4RE2-10,20HP; 4RE5-20HP;4RH1,4RH5,4RK2, 4RL1-15HP
Stator Cover Kit	998-1311-01	4RA4-10,20HP;4RH2,4RL2-15HP; 4RE,4RJ1-20HP;4RH1,4RK2- 25HP
Stator Cover Kit	998-1311-02	4RJ,4RR-30HP

(Continued on page 2)

*Indicates various models

**Includes head, piston, spring and gaskets.

COPELAND CORPORATION Product Service

 500 Conrad Harcourt Way
 Rushville, Indiana, USA 46173-0218
 Phone: 317-932-2956

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 Copeland Corporation, Sidney, Ohio.

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 (Supersedes PS-1060-R7)
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FIELD REPLACEMENT PARTS

Part Description	Part Number	Model Series
Sight Glass Kit	998-0002-02	All
Oil Screen Kit	998-0513-00	All
Oil Check Valve	998-0510-00	All
Crankcase Vent. Valve	510-0003-00	All
Relief Valve	998-0051-00	4RH,4RJ,4RK,4RL,4RR
Oil Pump Kit	998-0008-03	All
Oil Pressure Control	085-0062-00	All
Oil Control Bracket	998-0700-01	All (except 4RL)
Oil Control Bracket	998-0700-07	4RL
Suction Strainer Screen	548-0116-00	All
Terminal Box	062-0132-01	All
Terminal Box Cover	005-0345-00	All
Terminal Board	580-0054-00	All
Terminal Plate, Stud & Insulator Assy:		
Motor Type		
TSK	521-0142-00	All
FSD,FSM,FSR,FSY	521-0140-00	All
TSE	521-0140-00	20,25,30HP
TSE	521-0143-00	7½,10,15HP
ESL,ESM,ESY,ESX	521-0141-00	All

MODULES

Robertshaw has developed a solid state module compatible with the T.I. sensors. The Robertshaw MP50 module is dimensionally and functionally identical to the T.I. 15AA module and will be used as an alternate to the T.I. 15AA module.

Module Voltage	Vendor No.	Copeland No.	Replacement Kit No.
<u>All Models Manufactured After September 1981</u>			
120	3AA7-2*	071-0376-02	998-0424-01
	15AA1600B*	071-0424-01	998-0424-01
	MP50-1001**	071-0441-01	998-0424-01
240	3AA4-2*	071-0376-01	998-0424-00
	15AA1600C*	071-0424-00	998-0424-00
	MP50-1201**	071-0441-00	998-0424-00
<u>25 HP Manufactured Before September 1981</u>			
Caution: Replacement Kit 998-0424-00/01 cannot be used to replace MP13,MP23 and MP33 modules.			
120	MP13-1018**	071-0388-01	998-0071-01
	MP23-1004**	071-0398-01	998-0071-01
	MP33-1013**	071-0444-01	998-0071-01
240	MP13-1019**	071-0388-00	998-0071-00
	MP23-1003**	071-0398-00	998-0071-00
	MP33-1214**	071-0444-00	998-0071-00

CRANKCASE HEATERS

Volts	Part Number
External Clamp on Type *(65 Watt) (Model with Flat bottom-plate)	
120	018-0007-05
240	018-0007-06
600	018-0007-08
External Clamp on Type *(100 Watt) (Models with Flat bottom-plate)	
120	018-0007-12
240	018-0007-11
600	018-0007-14
Internal Immersion Type (100 Watt) (Models with Flat bottom-plate)	
120	518-0002-03
240	518-0002-02
480	518-0002-01
600	518-0002-00
External Cartridge Type (200 Watt) (Models with extended oil sump)	
120	518-0003-00
240	518-0003-01

* Each heater requires 2 mounting clips 032-0091-00. (order separately)

TIME DELAY RELAYS

PART NUMBER	VOLTS	TIME DELAY
998-0109-00	230	1 sec. ± .10
998-0109-01	115	1 sec. ± .10

*Texas Instrument

**Robertshaw

CAPACITY CONTROL

Standard Model Converts To	Capacity Control Model
4RA	4RE
4RH	4RK
4RJ	4RR

VERTICAL COOLING FAN ASSEMBLIES

998-0550-00	Fan Motor, Blade & Guard 230 V.
998-0550-01	Fan Motor, Blade & Guard 460 V.
998-0550-02	Fan Motor, Blade & Guard 115 V.
998-0574-03	Fan Mounting Kit

Capacity Control Kit* With Valve Plate	Coil Voltage	Models 4RE	Models 4RK
	24	998-0119-00	998-0119-04
120	998-0119-01	998-0119-05	
240	998-0119-02	998-0119-06	
440	998-0119-03	998-0119-07	
Capacity Control Kit* Less Valve Plate	4RE,4RK		4RR
	24	998-0119-08	998-0119-16
	120	998-0119-09	998-0119-17
	240	998-0119-10	998-0119-18
	440	998-0119-11	998-0119-19

OIL COOLER

Model 4RL uses oil cooler 998-1124-00

Note: Model "4RL" must be operated with an oil-cooler and vertical cooling fan assembly.

*Includes cylinder head, valve, coil and gaskets.

CAPACITY CONTROL REPLACEMENT PARTS

Coil	24 Volt	120 Volt	240 Volt	440 Volt
Alco	023-0039-00	023-0039-01	023-0039-02	023-0039-03
Sporlan	023-0041-00	023-0041-01	023-0041-02	023-0041-03
Valve & Coil Assy.				
Alco	510-0212-01	510-0212-02	510-0212-03	510-0212-04
Sporlan	510-0243-01	510-0243-02	510-0243-03	510-0243-04
Valve Only		Piston Assy.	Spring	
Alco	510-0212-00	504-0130-00	006-0200-00	
Sporlan	510-0243-00			

MOUNTING PARTS

HP	Part Number
Flat Bottom Plate	527-0037-00
7½,10,15,20HP	
(except 4RJ-20HP)	527-0042-00
25HP; 4RJ-20HP,	
30HP-4RJ1,4RR1	
Extended Oil Sump	527-0079-00
30HP-4RJ2,4RR2	
4R*5	
	527-0081-00

*Indicates various models

SUGGESTED SERVICE VALVES

(See page 4 for service valve mounting bolts.)

HP	Suction	Size	Gasket	Discharge	Size	Gasket
<u>7½ & 10HP</u>	510-0062-00	1½" Swt.	020-0006-33	510-0063-00	1½" Swt.	020-0012-09
4RA3,4RA5,4RE2						
<u>10HP</u>	510-0194-00	2½" Swt.	020-0006-34	510-0063-00	1½" Swt.	020-0012-09
4RA4						
<u>15HP</u>						
4RH1,4RK2	510-0062-00	1½" Swt.	020-0006-33	510-0063-00	1½" Swt.	020-0012-09
4RH2,4RL2						
4RH5,4RL1						
<u>20HP</u>	510-0062-00	1½" Swt.	020-0006-33	510-0063-00	1½" Swt.	020-0012-09
4RA3,4RE2,4RE5						
4RA4,4RE4,4RJ1	510-0194-00	2½" Swt.	020-0006-34	510-0063-00	1½" Swt.	020-0012-09
<u>25HP</u>	510-0194-00	2½" Swt.	020-0006-34	510-0063-00	1½" Swt.	020-0012-09
4RH1,4RK2						
<u>30HP</u>	510-0194-00	2½" Swt.	020-0006-34	510-0063-01	1½" Swt.	020-0012-09
4RJ,4RR						

*Use rotalock adapter 036-0062-00 and gasket 020-0421-01.

SHIPPING PLATES

HP	Suction Plate	Gasket	Discharge Plate	Gasket
<u>7½ & 10HP</u> 4RA3,4RA5,4RE2	003-0203-00	020-0008-01	003-0055-02	020-0012-09
<u>10HP</u> 4RA4	003-0209-00	020-0639-00	003-0055-02	020-0012-09
<u>15HP</u> 4RH1,4RK2,4RH5,4RL1 4RH2,4RL2	003-0203-00 003-0209-00	020-0008-01 020-0639-00	003-0055-02 003-0055-02	020-0012-09 020-0012-09
<u>20HP</u> 4RA3,4RE2,4RE5 4RA4,4RE4,4RJ1	003-0203-00 003-0209-00	020-0008-01 020-0639-00	003-0055-02 003-0055-02	020-0012-09 020-0012-09
<u>25HP</u> 4RH1,4RK2	003-0209-00	020-0639-00	003-0055-02	020-0012-09
<u>30HP</u> 4RJ2,4RR1,4RR2	003-0209-00	020-0639-00	003-0055-02	020-0012-09

CONVERSIONS

Code	Conversion Required	
A	Change Stator Cover	
B	Change to Extended Oil Sump	
C	Add Capacity Control	
Standard Model	Converts To Model	Conversion Code
4RA3-0750	4RA5	B
4RA3-1000	4RA4	A
	4RE2	C
4RA3-2000	4RA4	A
	4RE2	C
4RE2-2000	4RE4	A
	4RE5	B
4RH1-1500	4RH2	A
	4RH5	B
	4RK2	C
4RH1-2500	4RH2	A
	4RH5	B
	4RK2	C
4RJ1-2000	4RJ2	B
4RJ1-3000	4RJ2	B
	4RR1	C
	4RR2	B&C
4RL1-1500	4RL2	A
4RR1-3000	4RR2	B

SERVICE VALVE MOUNTING BOLTS

Valve	Bolt
510-0023	100-0013-48
510-0062	100-0013-56
510-0063	100-0013-50
510-0194	100-0013-62

* Bolt to mount rotalock flange to compressor body

General Information

For additional information refer to:

- PS-1115 Valve Plate & Gasket Set Listing
- PS-1116 Interchangeability & Conversion
- PS-1219 Copelametic Compressor Cross-Reference
- PS-1220 Motor Protector & Vendor Cross-Reference
- PS-1224 Vertical Cooling Fan Assemblies
- PS-1249 Service Valves
- AE-22-1182 Crankcase Heaters