

MRB1-050A-TFC

CFC, R-12, 60 Hz, 3 -phase, 208/230 V

Medium Temperature



Production Status: This compressor and/or application of this compressor is not available to U.S. OEM customers. A field replacement is currently available through a U.S. Emerson Climate Technologies Wholesaler. Please check with your local Emerson Climate Technologies Representative for international availability.

Performance

Evap(°F)/Cond(°F)	20 / 120	0 / 110
RG(°F)/Liq(°F)	65.0 / 120.0	65.0 / 110.0
Capacity (Btu/hr)	36000	23200
Power (Watts):	4830	3670
Current (Amps):	16.00	13.10
EER (Btu/Wh):	7.50	6.30
Mass Flow (lbs/hr):	720	436
Sound Data @		
Sound Power (dBA):	0 Avg	0 Max
Vibration (mils(peak-peak)):	0.0 Avg	0.0 Max
Record Date:	2007-02-12	

Mechanical

Number of Cylinders:	2	Displ(in ³ /Rev):	19.62
Bore Size(in):	2.62	Displ(ft ³ /hr):	1192.37
Stroke(in):	1.81		
Overall Length (in):	22.44	Mounting Length (in):	11.63
Overall Width (in):	13.00	Mounting Width (in):	11.00
Overall Height (in):	16.94	Mounting Height (in):	18.00 *
Suction Size (in):	1 3/8 Sweat		
Discharge Size (in):	7/8 Sweat		
Oil Recharge (oz):	70		
Initial Oil Charge (oz):	80		
Net Weight (lbs):	261		
Internal Free Volume (in ³):			
Horse Power:			
*Overall compressor height on Copeland Brand Product's specified mounting grommets.			

Electrical

LRA-High*:	115.0	MCC (Amps):	29.4	UL File No:	
LRA-Half Winding:		RPM:	3500	UL File Date:	26-Apr-1972
LRA Low*:		Max Operating Current:			
RLA(=MCC/1.4;use for contactor selection):			21		
RLA(=MCC/1.56;use for breaker & wire size selection):			18.8		
*Low and High refer to the low and high nominal voltage ranges for which the motor is approved.					

Alternate Applications

Refrigerant	Freq (Hz)	Phase	Voltage	Application
R-12 CFC	50	3	200/220	Medium Temperature
R-502 CFC	50	3	200/220	Low Temperature
R-502 CFC	60	3	208/230	Low Temperature

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<u>Reference</u>	<u>Component</u>	<u>Quantity</u>	<u>Description</u>	<u>Comment</u>
52	003-0020-02	1	PLATE-MUFFLER	
9	005-0044-00	1	COVER-STATOR	
16	005-0163-00	1	COVER-TERMINAL BOX	
24	013-0067-00	1	SCREEN-OIL STRAINER	
25	013-0067-00	1	SCREEN-OIL STRAINER	
27	020-0006-53	1	GASKET-CIRCULAR	
51	020-0012-09	1	GASKET-SERVICE VALVE	SUCTION
10	020-0012-09	1	GASKET-SERVICE VALVE	SUCTION
11	020-0012-11	1	GASKET-SERVICE VALVE	DISCHARGE
44	020-0012-11	1	GASKET-SERVICE VALVE	OIL SCREEN COVER PLATE GASKET
44	020-0012-11	2	GASKET-SERVICE VALVE	GASKET REQUIRED ON BOTH SIDES OF
3	020-0103-04	1	GASKET-VALVE PLATE	
4	020-0104-00	1	GASKET-HOUSING COVER	
8	020-0130-00	1	GASKET-STATOR COVER	
15	020-0146-00	1	GASKET-TERM MTG PLATE	
7	020-0159-00	1	GASKET-BOTTOM PLATE	
49	020-0297-13	1	GASKET-SENTRONIC SENSOR	
1	020-0604-00	1	GASKET-CYLINDER HEAD	
20	020-0844-02	1	SEAL	SEAL FOR FUSED CLUSTER
21	020-0844-04	1	SEAL-SIGHT GLASS	
99	020-1204-00	1	GASKET-OIL PUMP	
17	062-0058-00	1	BOX-TERMINAL	
33	510-0142-00	1	VALVE-OIL CHECK ASSM	
18	521-0018-00	1	TERMINAL-FUSED CLUSTER	
19	521-0144-00	1	TERMINAL-PLATE GROUP	
34	527-0105-00	1	SPACER-MOUNTING ASSM	
28	918-0009-00	1	HEATER-CRANKCASE 120V	120V 65W BOLT ON

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<u>Reference</u>	<u>Component</u>	<u>Quantity</u>	<u>Description</u>	<u>Comment</u>
28	918-0009-01	1	HEATER CRANKCASE 240V	65W BOLT ON
23	998-0002-02	1	SIGHT GLASS KIT	
6	998-0008-33	1	OIL PUMP KIT	WITH OIL PUMP BOLTS GASKETS &
22	998-0086-38	1	PROTECTOR & GASKET KIT	
12	998-0510-11	1	SERV VALVE KIT 1 3/8 SWT	1 3/8 SWT 2 BOLT SUCTION
13	998-0510-12	1	SERV VALVE KIT 7/8 SWT	7/8 SWT 2 BOLT DISCHARGE
50	998-0513-04	1	SUCTION SCREEN KIT	
2	998-0661-50	1	VALVE PLATE KIT	
37	998-0669-23	1	GASKET SET	
29	998-0700-02	1	BRACKET KIT	
14	998-5100-00	1	SUCT & DISCH VALVE KIT	WITH VALVES BOLTS & GASKETS

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Accessories

<u>Category</u>	<u>PartNumber</u>	<u>Description</u>
Crankcase Heaters	918-0009-00	Crankcase Heater Kit, 120V, 65W, bolt on. For usage on specific Copeland Copelametic & Discus Compressor except deep sump models. Includes crankcase heater, and reference drawings.
	918-0009-01	Crankcase Heater Kit, 240V, 65W, bolt on. For usage on specific Copeland Copelametic, & Discus Compressor except deep sump models. Includes crankcase heater, and reference drawings.
	918-0009-02	Crankcase Heater Kit, 480V, 65W, bolt on. For usage on specific Copeland Copelametic, & Discus Compressor except deep sump models. Includes crankcase heater, and reference drawings.
	918-0009-03	Crankcase Heater Kit, 600V, 65W, bolt on. For usage on specific Copeland Copelametic, & Discus Compressor except deep sump models. Includes crankcase heater, and reference drawings.
Electrical Components	085-0160-00	3 Phase Voltage Monitor. For use with all Copeland 3 Phase Compressors. Consult model family nomenclature for electrical definition in the model number.
Miscellaneous	024-0200-00	Fan Guard, Top, for Head Cooling Fan
	083-0118-00	Fan Blade, for Head Cooling Fan
	083-0130-00	Replacement Fan Blade (Horizontal Fan)
	585-1036-00	Sentronic Oil Pressure Control Kit, includes Sentronic oil pressure control, screws to mount control, oil pressure sensor, and sensor gaskets. Control mounting brackets are supplied on service replacement compressors.
	585-1066-02	Sentronic Oil Pressure Control Kit, includes Sentronic oil pressure control, screws to mount control, oil pressure sensor, and sensor gaskets. Control mounting brackets are supplied on service replacement compressors.
	998-0550-00	Fan Motor Blade & Guard Assembly 230V, Does not include mounting bracket. Must be ordered separately
	998-0550-01	Fan Motor Blade & Guard Assembly 460V, Does not include mounting bracket. Must be ordered separately
	998-0550-02	Fan Motor Blade & Guard Assembly 115V, Does not include mounting bracket. Must be ordered separately
	998-0550-03	Fan Motor, 230V, Includes fan motor mounted to bottom guard
	998-0550-04	Fan Motor, 460V, Includes fan motor mounted to bottom guard
	998-0550-05	Fan Motor, 115V, Includes fan motor mounted to bottom guard

<u>Category</u>	<u>PartNumber</u>	<u>Description</u>
	998-0574-01	Fan Mounting Kit, Vertical fan mount on top of compressor head
	998-0574-09	Fan Mounting Kit, Vertical fan mount on top of compressor head MD models
	998-0683-00	Shipping Plate, Gasket, and Bolt (Discharge all 2D) (Discharge) (Suction & Discharge) 2 kits required
	998-0683-01	Shipping Plate, Gasket, and Bolt (Suction all 2) (Discharge all 3D, 4D, 4R, 6D, 6R & 9R) (Suction) (Suction 5, 6, 7 1/2, 9, & 10 12 HP)
	998-AB52-01	Akylbenzene Oil. Approved for use with specific Copeland Semi Hermetic After Market Compressors. Consult model family nomenclatures for oil identifier in the model number.
	998-E022-01	Polyol Ester Oil. Approved for use with specific Copeland Hermetic & Semi Hermetic models. Consult specific model family nomenclatures for oil identifier in the model number.
Oil Management	998-0161-01	Sentronic Oil Control, Control only, supplied with 44" cable as standard
	998-0162-00	Kit includes sensor, gaskets, and cable.
	998-0283-02	Standard Sentronic cable is 44" long. The extension cable is 12 ft long and must be wired into the control. Kit 998-0283-02 includes instructions.

Common U.S. Service Bill Of Materials

	Suction Connection	Suction Size	Discharge Connection	Discharge Size	Electrical Connection	Mounting Assembly	Sight Glass	Crankcase Heater	Schraeder Valve	Tandem Ready	Module Voltage
800						-	-	-	-	-	-
8R0					SCREW	-	-	-	-	-	-
8S0						-	-	-	-	-	-

* Note: For all other Bill Of Material descriptions (Including International and Customer Specific Bills of Materials) contact your sales representative or the Application Engineering Department.