

KAKB-011E-CAV

HFC, R-404A, 60Hz, 1- Phase, 208/230 V

Low Temperature



Production Status: Available for sale to all U.S. customers. Please check with your local Emerson Climate Technologies Representative for international availability.

Performance

<u>Evap(°F)/Cond(°F)</u>	<u>-25 / 105</u>	<u>-40 / 105</u>
<u>RG(°F)/Liq(°F)</u>	<u>65 / 105</u>	<u>65 / 105</u>
Capacity (Btu/hr)	4360	2400
Power (Watts):	1320	1110
Current (Amps):	6.10	5.20
EER (Btu/Wh):	3.30	2.20
Mass Flow (lbs/hr):	78	43
Sound Power (dBA):	0 Avg	0 Max
Vibration (mils(peak- Record Date:	0.0 Avg	0.0 Max
	2001-08-07	

Mechanical

Number of Cylinders:	2	Displ(in ³ /Rev):	4.20
Bore Size(in):	1.69	Displ(ft ³ /hr):	255.09
Stroke(in):	0.94		
Overall Length (in):	14.38	Mounting Length (in):	8.19
Overall Width (in):	9.50	Mounting Width (in):	6.38
Overall Height (in):	10.44	Mounting Height (in):	11.19 *
Suction Size (in):		5/8 Flare	
Discharge Size (in):		1/2 Flare	
Oil Recharge (oz):		20	
Initial Oil Charge (oz):		22	
Net Weight (lbs):		96	
Internal Free Volume (in ³):			
Horse Power:			
*Overall compressor height on Copeland Brand Product's specified mounting grommets.			

Electrical

LRA-High*:	40.0	MCC (Amps):	11.0	UL File No:	SA-2337
LRA-Half Winding:		RPM:		UL File Date:	23-Jul-1984
LRA Low*:		Max Operating Current:			
RLA(=MCC/1.4;use for contactor selection):		7.9			
RLA(=MCC/1.56;use for breaker & wire size		7.1			
*Low and High refer to the low and high nominal voltage ranges for which the motor is approved.					

Alternate Applications

<u>Refrigerant</u>	<u>Freq (Hz)</u>	<u>Phase</u>	<u>Voltage</u>	<u>Application</u>
R-404A HFC	50	1	200/220	Low Temperature

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Service Parts

<u>Reference</u>	<u>Component</u>	<u>Quantity</u>	<u>Description</u>	<u>Comment</u>
20	003-0692-00	1	PLATE-BOTTOM	
17	005-0010-00	1	COVER-TERMINAL BOX	
10	013-0001-00	1	SCREEN-STRAINER	SUCTION
5	020-0003-09	1	GASKET-O RING	BOTTOM PLATE
34	020-0012-10	2	GASKET-SERVICE VALVE	SUCTION & DISCHARGE
6	020-0096-02	1	GASKET-STATOR COVER	
4	020-0107-02	1	GASKET-HOUSING COVER	
1	020-0920-01	1	GASKET-CYLINDER HEAD	
3	020-0958-03	1	GASKET-VP	
18	062-0003-01	1	BOX-TERMINAL	
16	064-0012-06	1	INSULATOR	PROTECTOR SLEEVE-RUBBER BAND
15	071-0092-42	1	PROTECTOR	
21	521-0176-00	1	TERMINAL-INSULATOR ASSM	3 ELEC TERMINALS INSULATORS &
26	527-0005-02	1	SPACER-MOUNTING ASSM	
19	580-0070-00	1	BOARD-TERM ASSM	
22	914-0008-51	1	CAP START KIT	
33	914-0037-18	1	RUN CAP KIT W/CLAMP	
11	918-0118-05	1	CRANKCASE HTR KIT 120V	50W CLIP/BOLT ON
11	918-0118-06	1	CRANKCASE HTR KIT 240V	50W CLIP/BOLT ON
29	940-0001-50	1	RELAY-POTENTIAL KIT	
24	998-0002-04	1	SIGHT GLASS KIT	
12	998-0510-22	1	SERV VALVE KIT 1/2 FL	2 BOLT DISCHARGE
13	998-0510-25	1	SERV VALVE KIT 5/8 FL	2 BOLTS SUCTION
28	998-0514-48	1	CAP & RELAY ASSM	
2	998-0661-16	1	VALVE PLATE KIT	
27	998-0669-14	1	GASKET SET	
7	998-5100-23	1	SUCT & DISCH VALVE KIT	WITH VALVES BOLTS & GASKETS

Scott Kohler
12/18/2013

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Accessories

<u>PartNumber</u>	<u>Description</u>
024-0160-00	Fan Guard - (Horizontal Fan)
083-0130-00	Replacement Fan Blade (Horizontal Fan)
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.
918-0118-03	Crankcase Heater, 460v, 50w, bolt on. For usage on Copeland H & K Compressors.
918-0118-05	Crankcase Heater, 120v, 50w, bolt on. For usage on Copeland H & K Compressors.
918-0118-06	Crankcase Heater, 240v, 50w, bolt on. For usage on Copeland H & K Compressors.
998-0050-00	Fan Assembly, 208/230-1-50/60, 1-1 1/2 HP. Horizontal fan assembly to blow on compressor side, replacement motor 050-0259-13.
998-0050-02	Fan Assembly, 208/230-1-50/60 2HP. Horizontal fan assembly to blow on compressor side, replacement motor 050-0259-13.
998-0050-03	Fan Assembly, 440-1-50/60, 2 HP. Horizontal fan assembly to blow on compressor side, replacement motor 050-0259-14.
998-0683-00	Shipping Plate, Gasket, and Bolt (Discharge all 2D) (Discharge) (Suction & Discharge) 2 kits required
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.

Common U.S. OEM 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
212						-	-	-	-	-	-
213						Yes	-	-	-	-	-
215						-	-	-	-	-	-
220						-	-	-	-	-	-
221						-	-	-	-	-	-
222						Yes	-	-	-	-	-
250						Yes	-	-	-	-	-
275						-	-	-	-	-	-
299						-	-	-	-	-	-

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						-	-	-	-	-	-
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.