

Compressor, KCE444HAG, 3/8 HP, Copeland, R-134a, 1077 W, 2.2 A, 230V, HBP, CSCR, High Temp

Category: Refrigeration

written by www.mbsm.pro | 9 March 2026



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Field data and technical breakdown of the Emerson Copeland KCE444HAG 3/8 HP commercial refrigeration compressor, including performance charts and direct replacement options.

Mbsm.pro, Copeland Compressor RS80C1E-CAZ-252, 1 HP, R134a Refrigerant, 220-240V Single Phase

50Hz, RSIR Motor, LBP Low Temperature Freezing Application, Hermetic Reciprocating Technology

Category: compressor

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The Copeland RS80C1E-CAZ-252 represents a specialized hermetic reciprocating compressor engineered for low-temperature refrigeration applications where reliability meets efficiency. This single-phase unit operates on R134a refrigerant and delivers consistent performance in demanding freezing

environments ranging from -30°C to -10°C evaporating temperatures. Operating at 220-240V single-phase 50Hz power supply, this unit draws approximately 5 amperes during normal operation, making it suitable for standard commercial electrical systems.

Champion of HBP: Copeland KCJ513HAG-S424H

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How many ton this compressor



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The Copeland KCJ513HAG-S424H is a powerhouse 1.2 HP compressor designed for high-demand cooling. Built for R134a applications like large water coolers and AC units, it delivers 12,300 Btu/h reliability. This guide covers its CSCR electrical setup, 38cc displacement, and how it compares to Tecumseh alternatives.

Copeland QR15M1-TFD-501 compressor

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Copeland QR15M1-TFD-501 low-sound R22 hermetic compressor technical specifications and applications

Copeland ZB50KCE Scroll Compressor

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copeland zb50kce scroll compressor 7 hp 11.9 kw polyester oil nameplate data
Mbsmgroup mbsmpro.com

Mbsm.pro, Compressor, copeland,
CRC1-0175-PFU-501, 2 ton, 2.25 hp,
r22, compatible, ESAH-18CH, 18000
btu, 1920 w

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Mbsm.pro, Compressor, copeland, CRC1-0175-PFU-501, 2 ton, 2.25 hp, r22, compatible, ESAH-18CH, 18000 btu, 1920 w

Mbsm.pro, Compressor , Copeland, CRFQ-0250-PFV-501, 2.5 hp, CRDQ-0200-PFJ-501, 2 hp, r22

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Mbsm.pro, Compressor , Copeland, CRFQ-0250-PFV-501, 2.5 hp, CRDQ-0200-PFJ-501, 2 hp, r22

Mbsm.pro, D2sc-55X-Ewl, 5.5HP, Copeland, Semi-Hermetic, Compressor

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Copeland compressor can be used for low/medium and high temperature. These compressors are from Copeland China factory.

DWM Copeland™ Compressors are suitable

For a wide range of applications either in the form of single compressors, condensing units or as multi-compressor equipment

Cooling Capacity at Standard Condition 2.67kW R404A, Evaporating -35° C, Condensing 40° C, Suction Gas Return 20° C, Sub cooling 0K

Mechanical Data

Number of cylinders 2.0 Displacement @ 50 Hz, cu. M/h 18.2

Bore/Stroke, mm 60.4/36.5 Length/Width, mm 470/330

Height, mm 385.0 Net Weight, kg 87.0

Gross Weight, kg 93.0 Suction, inch 1 1/8

Discharge, inch 5/8 Oil Quantity, l 2.0

Frequency Range, Hz 25 – 60 Base mounting (hole dia), mm 295 x 279 (14.0)

Sound Pressure @ 1m, dBA 63.1 Sound Power, dBA 74.1

High Side PS, bar(g) 28.0 Low Side PS, bar(g) 22.5

Electrical Data

Maximum Operating Current, A 9.5 Locked Rotor Current, A 68.5

Default Enclosure Class IP 54 (IEC 34)

Accessories

Mounting Springs 4

Additional Cooling 1 or 2 ways water Coil

Crankcase Heater 70W Internal

Additional Cooling 70W Vertical Air Flow Fan

Additional Cooling 25W Horizontal Air Flow Fan

Adapter Kit For Parallel Operation

Inverter Control Techniques SKB 3400750

odel	nom Displace HP m3/hr		Evaporating temperature (Capctiy R404A/R507)										Electrical amp s/ph				
			-35	-30	-25	-20	-15	-10	-5	0	5	rla*	mcc*	l. r. a			
DKSJ-15X-EWL	1.5	6.3	937	1260	1635	2075	2595	3200	3905						3.2	3.5	20.4
DLE-20X-EWL	2	9.9	871	1430	20700	2810	3665	4655	5805	7130	8655	4.6	5.7	37.6			
DLJ-30X-EWL	3	14.5	1770	2540	3425	4460	5665	7070	8705	10590	12760	6.7	8.0	53			
DLL-40X-EWL	4	18.1	2273	3330	4558	5996	7670	9615	11870	14460	17460	7.9	9.5	68.5			
DLSG-40X-EWL	4	22.5	2980	4175	5625	7300						7.4	8.9	53.4			
D2SC-65X-EWL	6.5	26.9		5100	6750	8700	10900	13500	16400	19800	23700	12.7	16.2	85.3			
D3SA-75X-AWM	7.5	32.2		5600	7650	10500	12850	16100	19800	24100	28900	14.2	17.9	82			
D3SC-100X-AWM	10	38		7150	9500	12250	15500	19300	23800	29000	35000	16.8	21.6	106			
D3SS-150X-AWM	15	49.9		10350	13550	17200	21400	26300	32000	38500	46000	23.2	30.2	125			
D4SA-200X-AWM	20	56		10650	14250	18400	23200	28800	35000	42500	51000	24.2	30.5	160			
D4SH-250X-AWM	25	70.8		13300	17600	22600	28300	3500	42500	51500	62000	31.1	40.1	192			
D4SJ-300X-AWM	30	84.7		15800*	21200	27400	34500	43000	52500	64000	76500	36.2	47.7	218			
D6SH-350X-AWM	35	106		19600*	26000	33500	42000	52000	63500	76500	92000	49.6	62.4	284			
D6SJ-400X-AWM	40	127		23100*	30500	39000	49000	60500	74000	89000	1E+05	55.2	71.8	347			
D6SK-500X-AWM	50	151.8		27200*	36500	47000	59500	73500	90500	109500	1E+05	71	94.7	415			
D8SJ600XB-1	60	181		33000	44000	56500	71500	88500	1E+05	13500	15800	84	107	544			
DKL20X-EWL	2	7.4	940	1330	1790	2330	2950	3700	4500			2.6	3.83	20.4			
DKSL20X-EWL	2	9.1	1390	1860	2410	3060	3820	4700	5700			3.2	4.7	20.4			
DLL30X-EWL	3	18.2	2268	3293	4503	5918						5.5	7.3	53			
D2SA-45X-EWL	4.5	22.4	3160*	4300	56500	7250	9100	11250	13700			7.4	11.4	68.5			
D3SA-75X-AWM	7.5	32.2		5600	7650	10050	12850	16100	19800	24100	28900	10.5	17.9	82			
D3SC-75X-AWM	7.5	38	5013*	6800	9000	11700	14850	18600	22900			12.4	18.7	82			
D3SS-100X-AWM	10	49.9		9950	12900	16300	20300	24900	30500			16.3	26	109			
D4SF-100X-AWM	10	56		11250	14600	18500	23200	28700	35000			16.9	27.1	105			
D4SL-150X-AWM	15	70.8		14700	18900	23900	29700	36500	44000			21.7	35.6	156			
D4ST-200X-AWM	20	84.7		17200	22400	28500	35500	44000	53500			24.2	42.4	175			
D6SL-250X-AWM	25	106		21400	27700	35000	43500	53000	64000			31.4	56.5	199			
D6ST-320X-AWM	32	127		25000	32000	40500	50500	62000	75000			39.2	62.9	255			
D6SU-400X-AWM	40	151.8		29600	38500	49000	61500	75500	92000			47.3	78	304			
D8SJ-450X-BWM	45	181		35500	46500	59000	74000	91000	1E+05			53.3	90.8	458			

D2SC-55XDownload

Mbsm.pro , Compressor, CR62KQM- TFD-202, Copeland, Hermetic, 5 hp, 3ph

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Mbsm.pro, Compressor, CRAQ-0150-PFV-501, Copeland, 1-1/2 HP, 208-230V, 1 PH, 17,000 BTU, R22, R407C, Hermetic

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Copeland™ Three Phase Compressor Models

TONNAGE	CR6/5 Ton	CRKQ	CR7	CR1,2,3	CRKF	CRKH	ZRK5/K3	Code	Hz-Phase-Volts
1.5T	CR18K6-TF5	CR18KQ-TF5		CRA1-0150-TF5				PFV	60-1-208/230
	CR18K6-TFD	CR18KQ-TFD		CRA1-0150-TFC				PFJ	60-1-265
	CR22K6-TF5			CRA1-0150-TFD				TF5	60-3-200/230
2T	CR22K6-TFD			CRC1-0175-TF5			ZR21K5-TF5	TFD	60-3-460
	CR24K6-TF5	CR24KQ-TF5		CRD1-0200-TF5			ZR21K5-TFD	TFE	60-3-575
	CR24K6-TFD	CR24KQ-TFD		CRD1-0200-TFD			ZR25K5-TF5		
	CR28K6-TF5	CR28KQ-TF5	CR28K7-TF5	CRE1-0225-TF5			ZR25K5-TFD		
	CR28K6-TFD	CR28KQ-TFD		CRE1-0225-TFD			ZR28K5-TF5		
	CR30K6-TF5						ZR28K5-TFD		
	CR30K6-TFD	CR30KQ-TFD		CRF1-0250-TFD			ZR28K5-TFD		
	CR32K6-TF5	CR32KQ-TF5	CR31K7-TF5	CRF1-0250-TF5			ZR28K5-TFD		
	CR32K6-TFD	CR32KQ-TFD		CRG3-0250-TF5			ZR32K5-TF5		
	CR32K6-TFE	CR32KQ-TFD		CRG3-0250-TFD			ZR32K5-TFD		
3T	CR32K6-TFE	CR33KQ-TFD					ZR32K5-TFE		
	CR35K6-TF5	CR34KQ-TF5		CRH3-0275-TF5			ZR32K5-TF5		
	CR35K6-TF5	CR36KQ-TF5		CRH3-0290-TF5			ZR32K5-TF5		
	CR35K6-TFD	CR34KQ-TFD		CRH3-0275-TFD			ZR32K5-TFD		
	CR35K6-TFE	CR36KQ-TFD		CRH3-0290-TFD			ZR32K5-TFD		
	CR38K6-TF5	CR37KQ-TF5		CRH3-0275-TFE			ZR32K5-TFE		
	CR38K6-TFD	CR37KQ-TFD		CRJ3-0300-TF5			ZR38K5-TF5		
	CR38K6-TFE			CRJ3-0300-TFD			ZR38K5-TFD		
	CR38K6-TFE			CRJ3-0300-TFE			ZR38K5-TFE		
	CR42K6-TF5	CR41KQ-TF5		CRK3-0325-TF5			ZR42K5-TF5		
3.5T	CR42K6-TFD	CRKQ-0325-TF5					ZR42K5-TFD		
	CR42K6-TFE	CR41KQ-TFD		CRK3-0325-TFD			ZR42K5-TFE		
	CR42K6-TFE	CRKQ-0325-TFD		CRK3-0325-TFE			ZR42K5-TFE		
4T	CR47KQ-TF5	CR47KQ-TF5		CRL3-0350-TF5			ZR48K5-TF5		
	CR47KQ-TFD	CR47KQ-TFD		CRI 3-0350-TFD			ZR48K5-TFD		

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The compressor model CRAQ-0150-PFV-501 is a Hermetic compressor manufactured by Copeland. It is a 1-phase, 208/230V compressor designed for air conditioning applications. The compressor uses HCFC or R-22 refrigerant and operates at 60Hz. Here are some of the key specifications of the CRAQ-0150-PFV-501 compressor:

- **Capacity:** 18,300 – 23,900 BTU/hr
- **Power:** 1,910 – 1,520 W
- **Current:** 8.8 – 7.0 Amps
- **EER:** 9.6 – 15.7 BTU/Wh
- **Mass Flow:** 268 – 308 lbs/hr
- **Sound Power:** 72 – 77 dBA
- **Vibration:** 1.7 – 2.7 mils (peak-peak)
- **Displacement:** 2.00 in³/Rev
- **Overall Length:** 9.44 in
- **Overall Width:** 9.13 in
- **Overall Height:** 13.56 in
- **Mounting Length:** 7.50 in
- **Mounting Width:** 7.50 in
- **Mounting Height:** 13.94 in
- **Suction Size:** 5/8 in
- **Discharge Size:** 3/8 in
- **Initial Oil Charge:** 55 oz
- **Oil Recharge:** 51 oz
- **Net Weight:** 61.0 lbs
- **Internal Free Volume:** 345.0 in³

This compressor is no longer in production and has been replaced by newer, more efficient models. However, it is still a popular choice for replacement applications due to its reliability and performance.