

Copeland - A Proven Performer

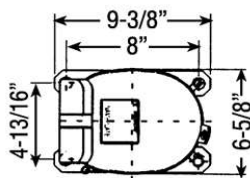


R-22, R-404A, R-507 High Efficiency Refrigeration Duty Compressors.

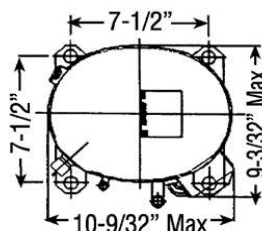
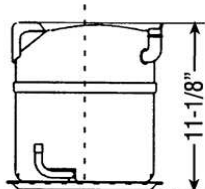
For Medium and High Temperature Refrigeration Applications.

- Unprecedented performance and reliability
- Proven reciprocating technology
- Low oil circulation rate
- Durable
- Energy efficient
- Designed for refrigeration duty

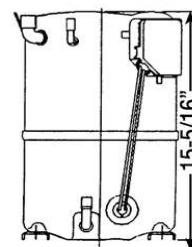
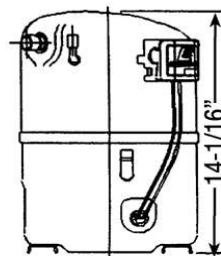
Typical Compressor Families



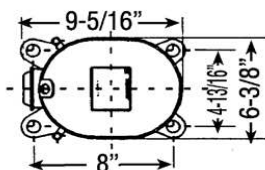
“R” Family



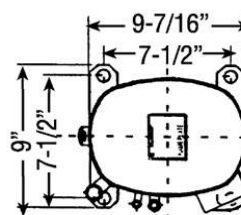
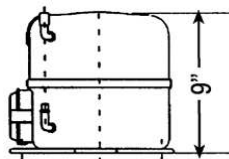
“CS*3” Family



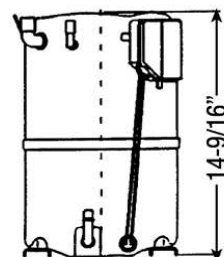
“CS*6” Family



“J” Family



“CR” Family



Terminology & Definitions

- RLA** The maximum current a compressor should draw under any operating conditions.
- LRA** The current drawn by a motor which is locked and cannot rotate. It occurs instantly during start up.
- MCC** Maximum continuous current or the minimum “rated load amp” value that may be used to comply with U.L. and N.E.C. requirements that the motor compressor protection system will not permit a continuous current in excess of 156% of the rated load amp.
- R-507** Average performance for this refrigerant is slightly different versus the 404A data published in this catalog. Capacity and mass flow are approximately 3% higher. Watts and amps are approximately 2% higher. Separate performance data on R-507 will not be published.

Bill of Material Information

xxxx-xxxx-xxx-**xxx** The last 3 digits of any model is a unique bill of material.

xxxx-xxxx-xxx-**9xx's** Wholesaler service compressors used to replace the above bills of material in most situations which include oil, protector, terminal box cover, and mounting parts in a single carton.
examples: -959 or -970

The Second Digit	xxxx-xxxx-xxx-x 5 x	Rotalock connection(s) or a valve welded on the suction side.
	xxxx-xxxx-xxx-x 7 x	Sweat connections with terminal flag kit, no electrical components. Copeland “CR” Compressors primarily
The Third Digit	xxxx-xxxx-xxx-xx 0	No electrical components with the compressor.
	xxxx-xxxx-xxx-xx 8	Electrical components mounted.
	xxxx-xxxx-xxx-xx 9	Electrical components remote, in the box with the service compressor.



Copeland R-404A/507 Extended Medium Temperature Compressors

Copeland Compressor Family Series
Either a number or a letter established for each product model.

Compressor nominal capacity at rating conditions to two significant digits.

Compressor Motor Types

Phase	Description	Code
1	Capacitor Run - Capacitor Start	C
1	Induction Run - Capacitor Start	I
1	Capacitor Run - Permanent Split Capacitor	P
3	Three Phase	T

Bill of Material*
(See Opposite Page)

Electrical Codes

60 Hz	50 Hz	Code
115-1	-	A
208/230-3	200/220-3	C
460-3	380/420-3	D
575-3	550-3	E
265-1	220/240-1	J
-	380/420-3	M
208/230-1	200-1	V
-	220/240-1	Z
200/230-3	200/240-3	5

Comp. Motor Nominal (HP)

1/2	0050
3/4	0075
1	0100
1-1/4	0125
1-1/2	0150
1-3/4	0175
2	0200
2-1/4	0225
2-3/4	0275
3	0275
3-1/2	0350
4	0400
4-1/2	0450
5	0500
7-1/2	7500
9	0900
10	1000
12	1200

Capacity Multiplier
C = 100
K = 1000

Model Variation
A number or letter, assigned to indicate different model types within any one family series.

Indicates compressors with polyol ester oil.

Compressor Motor Protection Type Protection

Type Protection	Code
External Thermal Protection - One Protector (Line Break)	A
Use with Contactor Internal Inherent Protection - One Protector (Line Break)	F
Use with Contactor	

Code Description

R	High Temperature
S	Medium Temperature
F	Low Temperature
T	Two Speed

60 Hertz				Nominal Performance ±5% After 72 Run-In Conditions (°F): Evap/Cond/Return Gas/Liquid/Ambient								Amperage Ratings		
R404A/507 Extended Med Temp.				20/120/40/120/95 °F				-10/120/40/120/95 °F						
Copeland Part Number	HP	Volt / Phase	CFM	BTUH	WATTS	AMPS	EER	BTUH	WATTS	AMPS	EER	RLA	LRA	MCC
RS43C1E-CAA-958	0.5	115-1	113	4170	944	10.6	4.4	1720	600	7.2	2.9	10.1	51	14.2
RS43C1E-IAA-958	0.5	115-1	113	4170	944	10.6	4.4	1720	596	8.1	2.9	10.1	51	14.2
RS43C1E-CAV-958	0.5	208/230-1	113	4170	944	5.6	4.4	1720	600	4.3	2.9	5.4	24.1	7.5
RS43C1E-IAV-958	0.5	208/230-1	113	4170	944	5.6	4.4	1720	600	4.3	2.9	5.7	24.1	8
RS64C1E-CAA-958	0.75	115-1	162	6460	1470	12.9	4.4	2860	1050	9.3	2.7	15.2	59	21.2
RS64C1E-IAA-958	0.75	115-1	162	6460	1470	12.9	4.4	2860	1050	9.3	2.7	17.5	76.7	24.5
RS64C1E-PAA-958	0.75	115-1	162	6460	1470	12.9	4.4	2860	1050	9.3	2.7	15.2	59	21.2
RS64C1E-CAV-958	0.75	208/230-1	162	6450	1460	6.4	4.4	2860	1050	4.6	2.7	7.7	37	10.8
RS64C1E-IAV-958	0.75	208/230-1	162	6450	1460	8.6	4.4	2860	1050	6.2	2.7	9.2	45	12.9
RS97C1E-CAA-959	1.5	115-1	245	9590	1940	19.4	4.9	3820	1250	14.4	3.1	19.6	95	29
RS97C1E-CAV-959	1.5	208/230-1	245	9590	1940	9.7	4.9	3820	1250	7.2	3.1	11	51	15.4
RS97C1E-TFC-959	1.5	208/230-1	245	9400	1890	6.3	5	3750	1210	4.7	3.1	7	35	9.8
CS12K6E-PFV-970	2	208/230-1	320	12000	1930	8.8	6.2	3990	1120	5.4	3.6	10.9	56	15.3
CS12K6E-PFJ-970	2	265-1	320	12000	1930	7.6	6.2	3990	1120	4.7	3.6	10.9	55	15.2
CS12K6E-TF5-970	2	208/230-3	320	11700	1860	5.8	6.3	3830	1090	3.6	3.5	7.5	51	10.5
CS14K6E-PFV-970	2.5	208/230-1	350	14100	2280	10.3	6.2	5440	1420	6.6	3.8	12.4	61	17.4
CS14K6E-PFJ-970	2.5	265-1	350	14100	2280	8.9	6.2	5440	1420	5.7	3.8	12.5	58	17.5
CS14K6E-TF5-970	2.5	208/230-3	350	13800	2210	6.9	6.2	5330	1370	4.5	3.9	9.1	55	12.8
CS14K6E-TFD-970	2.5	208/230-3	350	13800	2210	3.4	6.2	5330	1370	2.2	3.9	4.7	28	6.6
CS20K6E-PFV-970	3	208/230-1	535	20000	3120	14.9	6.4	7050	1850	10	3.8	18.6	96	26
CS20K6E-TF5-970	3	208/230-3	535	19600	3030	10	6.5	6910	1800	6.7	3.8	11.4	75	16
CS20K6E-TFD-970	3	460-3	535	19600	3030	5	6.5	6910	1800	3.4	3.8	5.1	40	7.1
CS27K3E-PFV-970	4	208/230-1	665	26500	4420	20.3	6	9370	2460	12.2	3.8	23.9	95.4	33.5
CS27K3E-TF5-970	4	208/230-3	665	26000	4290	13.1	6.1	9070	2495	8.1	3.6	15.6	82	21.4
CS27K3E-TFD-970	4	460-3	665	26000	4290	6.6	6.1	9070	2495	4.1	3.6	8.5	41	11.8
CS33K3E-PFV-970	5	230/230-1	756	31600	5290	25.3	6	11500	3070	15.8	3.8	30.7	125	43
CS33K3E-TF5-970	5	208/230-3	756	31200	5190	15.2	6	11700	2920	9.9	4	20.7	90	29
CS33K3E-TFD-970	5	380/460-3	756	31200	5190	7.6	6	11700	2920	5	4	9.9	45	13.8

Copeland R-22 High & Medium Temperature Compressors

60 Hertz				Nominal Performance Conditions (°F): Evap/Cond/Return Gas/Liquid/Ambient								Amperage Ratings*		
R-22 High Temp.				45/130/65/95 °F				20/120/65/120/95 °F						
Copeland Part Number	HP	Volt / Phase	CFM	BTUH	WATTS	AMPS	EER	BTUH	WATTS	AMPS	EER	RLA	LRA	MCC
JRF4-0050-IAA-958	0.5	115-1	113	7360	1090	13	6.8	4320	850	11.6	5.1	13.6	71	19
JRF4-0050-IAV-958	0.5	208/230-1	113	7360	1090	7	6.8	4320	850	5.8	5.1	6.4	34	9
RRGA-0100-PAA-950	1	115-1	161	10800	1390	12.6	7.8	6170	1050	9.8	5.9	13.2	60	18.5
RRGA-0100-PAV-950	1	208/230-1	161	10800	1390	6.3	7.8	6170	1050	4.9	5.9	6	33.5	8.4
CRA1-0150-PFV-970	1.5	208/230-1	242.5	16960	1870	8.3	9.1	9430	1430	6	6.6	10.8	48	15.1
CRA1-0150-TF5-970	1.5	208/230-1	242.5	17190	1810	5.8	9.5	9690	1350	5	7.2	9.3	58	13
CRA1-0150-TFC-970	1.5	208/230-1	242.5	17190	1810	2.9	9.5	9690	1350	3	7.2	4.1	17.4	5.7
REK3-0125-PFV-959	1.25	115-1	174.7	12500	1440	6	8.7	7090	1110	5.1	6.4	7	34.2	9.8
REK3-0125-TFC-959	1.25	208/230-1	174.7	12400	1370	3.8	9.1	7370	1020	3.1	7.2	4.7	31	6.6
REK3-0125-TFD-959	1.25	208/230-1	174.7	12400	1370	1.9	9.1	7370	1020	1.6	7.2	2.6	15	3.7
RSE4-0075-IAA-958	0.75	115-1	135	8620	1250	15.2	6.9	5060	940	13.2	5.4	14.3	66.3	20
RSE4-0075-IAV-958	0.75	208/230-1	135	8620	1250	15.2	6.9	5060	940	6.6	5.4	7.1	35.5	10
R-22 Medium Temp.				20/120/40/120/95 °F				0/110/40/110/95 °F						
Copeland Part Number	HP	Volt / Phase	CFM	BTUH	WATTS	AMPS	EER	BTUH	WATTS	AMPS	EER	RLA	LRA	MCC
RSE4-0075-IAA-958	0.75	115-1	135.3	4770	930	6.5	5.1	2630	690	5.8	3.8	14.3	66.3	20
RSE4-0075-IAV-958	0.75	208/230-1	135.3	4770	930	3.3	5.1	2630	690	2.9	3.8	7.1	35.5	10
RSN6-0075-IAA-958	0.75	115-1	162.4	6200	1190	15	5.2	3680	870	13	4.2	14.3	66.3	20
RSN6-0075-IAV-958	0.75	208/230-1	162.4	6200	1190	7.5	5.2	3680	870	6.5	4.2	6.9	45	9.6
RSL2-0101-CAA-959	1	115-1	244.5	9620	1760	18.2	5.5	5500	1300	14.8	4.2	18	78	25.2
RSL2-0101-CAV-959	1	208/230-1	244.5	9620	1760	9.1	5.5	5500	1300	7.4	4.2	10.4	51	14.5

*Terminology, Definitions and Bill of Material Information on page 2.

Available At Your:

