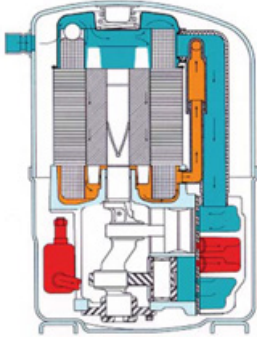


**Copelaweld®**

# CF/CS COMPRESSORS



The CF/CS compressor line was built with greater reliability and higher efficiency levels in mind.

50 HERTZ		PERFORMANCE NOMINALS					R404A		
SINGLE PHASE					200-1-50 (PFV) TEST VOLTAGE				
MODEL	RATING CONDITION	CAPACITY			MOTOR WATTS	AMPERES	ENERGY EFFICIENCY RATING		
		BTU HOUR	KCAL HOUR	WATTS			BTUH MOTOR WATTS	KCALH MOTOR WATTS	WATTS MOTOR WATTS
CF04K6E-PFV	B	3090	780	910	931	5.6	3.3	0.8	1.0
	C	2360	590	690	679	4.4	3.5	0.9	1.0
CF06K6E-PFV	B	5430	1370	1590	1460	8.3	3.7	0.9	1.1
	C	3900	980	1140	1080	6.3	3.6	0.9	1.1
CF09K6E-PFV	B	8230	2080	2410	2080	11.6	4.0	1.0	1.2
	C	5920	1490	1730	1560	9.0	3.8	1.0	1.1
CF12K6E-PFV	B	11000	2770	3220	3120	18.6	3.5	0.9	1.0
	C	8290	2090	2430	2330	15.3	3.6	0.9	1.0

RATING CONDITION	RATING STANDARD	EVAPORATING TEMPERATURE °F/°C	CONDENSING TEMPERATURE °F/°C	AMBIENT TEMPERATURE °F/°C	LIQUID TEMPERATURE °F/°C	RETURN GAS TEMPERATURE °F/°C
B	ARI	-10	120	95	120	40
		-23.3	48.9	35.0	48.9	4.4
C	LOW TEMPERATURE	-25	105	95	105	40
		-31.7	40.6	35.0	40.6	4.4

See expanded performance data on pages 30 to 33.

See full operating range on page 73.

Production compressors to meet above nominal performance values within ±5 percent.

# Copelaweld CF/CS Compressors

50 HERTZ PERFORMANCE NOMINALS R134a									
SINGLE PHASE					220-1-50 (PFJ) 220-1-50 (PFZ)		TEST VOLTAGE		
MODEL	RATING CONDITION	CAPACITY			MOTOR WATTS	AMPERES	ENERGY EFFICIENCY RATING		
		BTU HOUR	KCAL HOUR	WATTS			BTUH MOTOR WATTS	KCALH MOTOR WATTS	WATTS MOTOR WATTS
CS10K6E-PFJ	B	9470	2390	2770	1070	5.8	8.9	2.2	2.6
	C	4640	1170	1360	762	4.7	6.1	1.5	1.8
CS12K6E-PFJ	B	11100	2800	3250	1200	7.1	9.3	2.3	2.7
	C	5580	1410	1630	865	6.1	6.5	1.6	1.9
CS14K6E-PFJ	B	12800	3230	3750	1400	8.4	9.1	2.3	2.7
	C	6470	1630	1900	1010	7.1	6.4	1.6	1.9
CS18K6E-PFJ	B	17200	4330	5040	1880	11.3	9.1	2.3	2.7
	C	8690	2190	2550	1360	9.6	6.4	1.6	1.9
CS20K6E-PFZ	B	19600	4940	5740	2000	10.0	9.8	2.5	2.9
	C	9950	2510	2920	1390	7.5	7.2	1.8	2.1
CS24K6E-PFZ	B C	DATA BEING DEVELOPED							
CS27K6E-PFZ	B C	DATA BEING DEVELOPED							

SINGLE PHASE					200-1-50 (PFV)		TEST VOLTAGE		
MODEL	RATING CONDITION	CAPACITY			MOTOR WATTS	AMPERES	ENERGY EFFICIENCY RATING		
		BTU HOUR	KCAL HOUR	WATTS			BTUH MOTOR WATTS	KCALH MOTOR WATTS	WATTS MOTOR WATTS
CS10K6E-PFV	B	9690	2440	2840	1090	6.9	8.9	2.2	2.6
	C	4880	1230	1430	789	5.9	6.2	1.6	1.8
CS12K6E-PFV	B	11300	2850	3310	1210	7.2	9.3	2.4	2.7
	C	5690	1430	1670	872	6.1	6.5	1.6	1.9
CS14K6E-PFV	B	13100	3300	3840	1420	8.6	9.2	2.3	2.7
	C	6600	1660	1930	1020	7.3	6.5	1.6	1.9
CS18K6E-PFV	B	17500	4410	5130	1890	11.3	9.3	2.3	2.7
	C	8800	2220	2580	1360	9.6	6.5	1.6	1.9
CS20K6E-PFV	B	20000	5040	5860	2100	13.8	9.5	2.4	2.8
	C	10100	2550	2960	1520	11.7	6.6	1.7	1.9
CS27K6E-PFV	B	26300	6630	7710	2940	17.8	8.9	2.3	2.6
	C	13900	3500	4070	2090	13.9	6.7	1.7	1.9

RATING CONDITION	RATING STANDARD	EVAPORATING TEMPERATURE °F/°C	CONDENSING TEMPERATURE °F/°C	AMBIENT TEMPERATURE °F/°C	LIQUID TEMPERATURE °F/°C	RETURN GAS TEMPERATURE °F/°C
B	ARI	45	130	95	130	65
		7.2	54.4	35.0	54.4	18.3
C	HIGH TEMPERATURE	20	120	95	120	65
		-6.7	48.9	35.0	48.9	18.3

See expanded performance data on pages 34 to 71.

See full operating range on page 73 and 74.

Production compressors to meet above nominal performance values within ±5 percent.

50 HERTZ		PERFORMANCE NOMINALS					R134a		
THREE PHASE					220-3-50 (TF5) 380-3-50 (TFD)		TEST VOLTAGE		
MODEL	RATING CONDITION	CAPACITY			MOTOR WATTS	AMPERES*	ENERGY EFFICIENCY RATING		
		BTU HOUR	KCAL HOUR	WATTS			BTUH MOTOR WATTS	KCALH MOTOR WATTS	WATTS MOTOR WATTS
CS10K6E-TF5/D	B	9410	2370	2760	990	2.1/1.1	9.5	2.4	2.8
	C	5060	1280	1480	686	1.9/1.0	7.4	1.9	2.2
CS12K6E-TF5	B	9950	2510	2920	1070	2.2/—	9.3	2.3	2.7
	C	5330	1340	1560	740	1.9/—	7.2	1.8	2.1
CS14K6E-TF5/D	B	11700	2950	3430	1260	2.7/1.4	9.3	2.3	2.7
	C	6270	1580	1840	868	2.5/1.3	7.2	1.8	2.1
CS18K6E-TF5/D	B	17400	4380	5100	1820	4.0/2.1	9.6	2.4	2.8
	C	9340	2350	2740	1250	3.4/1.8	7.5	1.9	2.2
CS20K6E-TF5/D	B	19600	4940	5740	2020	4.4/2.3	9.7	2.4	2.8
	C	10500	2650	3080	1390	3.8/2.0	7.6	1.9	2.2
CS27K6E-TF5/D	B	25700	6480	7530	2830	12.5/6.6	9.1	2.3	2.7
	C	14000	3530	4100	1990	10.1/5.3	7.0	1.8	2.1

\* Ampere values shown are at 220 volts/380 volts.

RATING CONDITION	RATING STANDARD	EVAPORATING TEMPERATURE °F/°C	CONDENSING TEMPERATURE °F/°C	AMBIENT TEMPERATURE °F/°C	LIQUID TEMPERATURE °F/°C	RETURN GAS TEMPERATURE °F/°C
B	ARI	45 7.2	130 54.4	95 35.0	130 54.4	65 18.3
C	HIGH TEMPERATURE	20 -6.7	120 48.9	95 35.0	120 48.9	65 18.3

See expanded performance data on pages 34 to 71.

See full operating range on page 73 and 74.

Production compressors to meet above nominal performance values within ±5 percent.



# Copelaweld CF/CS Compressors

50 HERTZ		PERFORMANCE NOMINALS					R404A			
SINGLE PHASE					220-1-50 (PFJ) 220-1-50 (PFZ)		TEST VOLTAGE			
MODEL	RATING CONDITION	CAPACITY			MOTOR WATTS	AMPERES	ENERGY EFFICIENCY RATING			
		BTU HOUR	KCAL HOUR	WATTS			BTUH MOTOR WATTS	KCALH MOTOR WATTS	WATTS MOTOR WATTS	
CS08KQE-PFZ	B C	DATA BEING DEVELOPED								
CS10K6E-PFJ	B	8160	2060	2390	1380	7.1	5.9	1.5	1.7	
	C	2320	580	680	785	5.0	3.0	0.7	0.9	
CS12K6E-PFJ	B	9590	2420	2810	1570	7.7	6.1	1.5	1.8	
	C	2970	750	870	884	4.9	3.4	0.8	1.0	
CS14K6E-PFJ	B	11800	2970	3460	1870	10.3	6.3	1.6	1.9	
	C	4550	1150	1330	1160	6.6	3.9	1.0	1.1	
CS18K6E-PFJ	B	15000	3780	4400	2340	11.2	6.4	1.6	1.9	
	C	5270	1330	1540	1410	7.2	3.7	0.9	1.1	
CS20K6E-PFZ	B	16700	4210	4890	2640	12.9	6.3	1.6	1.9	
	C	5410	1360	1590	1470	7.8	3.7	0.9	1.1	
CS24K6E-PFZ	B	19200	4840	5630	3080	16.1	6.2	1.6	1.8	
	C	6930	1750	2030	1940	11.9	3.6	0.9	1.0	
CS27K6E-PFZ	B	23000	5800	6740	3590	18.3	6.4	1.6	1.9	
	C	8630	2170	2530	2250	12.9	3.8	1.0	1.1	

RATING CONDITION	RATING STANDARD	EVAPORATING TEMPERATURE °F/°C	CONDENSING TEMPERATURE °F/°C	AMBIENT TEMPERATURE °F/°C	LIQUID TEMPERATURE °F/°C	RETURN GAS TEMPERATURE °F/°C
B	ARI	20 -6.7	120 48.9	95 35.0	120 48.9	40 4.4
C	EXTENDED MEDIUM TEMPERATURE	-10 -23.3	120 48.9	95 35.0	120 48.9	40 4.4

See expanded performance data on pages 34 to 71.

See full operating range on page 73 and 74.

Production compressors to meet above nominal performance values within ±5 percent.

50 HERTZ PERFORMANCE NOMINALS R404A									
THREE PHASE					220-3-50 (TF5) 380-3-50 (TFD)		TEST VOLTAGE		
MODEL	RATING CONDITION	CAPACITY			MOTOR WATTS	AMPERES*	ENERGY EFFICIENCY RATING		
		BTU HOUR	KCAL HOUR	WATTS			BTUH MOTOR WATTS	KCALH MOTOR WATTS	WATTS MOTOR WATTS
CS10K6E-TF5/D	B	8210	2070	2410	1330	5.1/3.0	6.2	1.6	1.8
	C	2350	590	690	761	3.2/1.8	3.1	0.8	0.9
CS12K6E-TF5	B	9810	2470	2870	1530	6.1/—	6.4	1.6	1.9
	C	3200	810	940	891	3.8/—	3.6	0.9	1.1
CS14K6E-TF5/D	B	11600	2920	3400	1810	7.2/4.2	6.4	1.6	1.9
	C	4450	1120	1300	1130	4.7/2.7	3.9	1.0	1.2
CS18K6E-TF5/D	B	14800	3730	4340	2210	9.1/5.3	6.7	1.7	2.0
	C	5160	1300	1510	1320	5.9/3.4	3.9	1.0	1.1
CS20K6E-TF5/D	B	16400	4130	4810	2480	10.5/6.1	6.6	1.7	1.9
	C	5770	1450	1690	1470	7.0/4.0	3.9	1.0	1.1
CS24K6E-TF5	B	19100	4810	5600	3020	12.6/—	6.3	1.6	1.9
	C	6880	1730	2020	1860	10.8/—	3.7	0.9	1.1
CS27K6E-TF5/D	B	22300	5620	6530	3590	16.7/8.8	6.2	1.6	1.8
	C	8840	2230	2590	2210	11.0/5.8	4.0	1.0	1.2
CS33K6E-TF5/D	B	25700	6480	7530	4100	20.5/10.8	6.3	1.6	1.8
	C	10100	2550	2960	2520	12.5/6.6	4.0	1.0	1.2

\* Ampere values shown are at 220 volts/380 volts.

RATING CONDITION	RATING STANDARD	EVAPORATING TEMPERATURE °F/°C	CONDENSING TEMPERATURE °F/°C	AMBIENT TEMPERATURE °F/°C	LIQUID TEMPERATURE °F/°C	RETURN GAS TEMPERATURE °F/°C
B	ARI	20	120	95	120	40
		-6.7	48.9	35.0	48.9	4.4
C	EXTENDED MEDIUM TEMPERATURE	-10	120	95	120	40
		-23.3	48.9	35.0	48.9	4.4

See expanded performance data on pages 34 to 71.

See full operating range on page 73 and 74.

Production compressors to meet above nominal performance values within ±5 percent.

# Copelaweld CF/CS Compressors

## 50 HERTZ

### ELECTRICAL COMPONENTS FOR AIR CONDITIONING AND HEAT PUMP SINGLE PHASE COMPRESSORS (PFJ, PFV, AND PFZ)

PFJ MODELS	RUN CAPACITOR				
	STANDARD			MAXIMUM	
	MFD	VOLTS	PART NUMBER	MFD	VOLTS
CS10K6E	30	370	014-0037-10	35	370
CS12K6E	30	370	014-0037-10	35	370
CS14K6E	35	370	014-0037-28	40	440
CS18K6E	35	370	014-0037-36	45	370

PFV MODELS	RUN CAPACITOR				
	STANDARD			MAXIMUM	
	MFD	VOLTS	PART NUMBER	MFD	VOLTS
CF04K6E	30	370	014-0037-10	35	370
CF06K6E	30	370	014-0037-10	35	370
CF09K6E	40	370	014-0037-12	45	370
CF12K6E	40	440	014-0037-18	45	440
CS08KQE	30	370	014-0037-10	30	370
CS10K6E	30	370	014-0037-10	35	370
CS12K6E	30	370	014-0037-10	35	370
CS14K6E	35	370	014-0037-11	40	370
CS17K6E	35	440	014-0037-17	45	440
CS18K6E	35	370	014-0037-11	40	370
CS20K6E	40	370	014-0037-12	45	370
CS24K6E	40	440	014-0037-18	45	440
CS27K6E	40	440	014-0037-18	45	440
CS33K6E	55	440	014-0037-21	60	440

PFZ MODELS	RUN CAPACITOR				
	STANDARD			MAXIMUM	
	MFD	VOLTS	PART NUMBER	MFD	VOLTS
CS08KQE	30	440	014-0037-16	30	440
CS20K6E	40	370	014-0037-12	40	370
CS24K6E	60	370	014-0037-37	65	370
CS27K6E	60	370	014-0037-37	65	370

**50 HERTZ**

**ELECTRICAL COMPONENTS FOR AIR CONDITIONING AND HEAT PUMP SINGLE PHASE COMPRESSORS (PFJ, PFV, AND PFZ)**

HIGH STARTING TORQUE COMPONENTS				LOW STARTING TORQUE COMPONENTS			
START CAPACITOR			START RELAY PART NUMBER	START CAPACITOR			START RELAY PART NUMBER
MFD	VOLTS	PART NUMBER		MFD	VOLTS	PART NUMBER	
130-156	250	014-0036-18	040-0166-14	43-52	330	014-0061-16	040-0166-15
130-156	250	014-0036-18	040-0166-14	43-52	330	014-0061-16	040-0166-15
145-174	220	014-0061-04	040-0166-19				
145-174	250	014-0036-20	040-0166-15	43-52	330	014-0061-16	040-0166-15

HIGH STARTING TORQUE COMPONENTS				LOW STARTING TORQUE COMPONENTS			
START CAPACITOR			START RELAY PART NUMBER	START CAPACITOR			START RELAY PART NUMBER
MFD	VOLTS	PART NUMBER		MFD	VOLTS	PART NUMBER	
145-174	220	014-0061-04	040-0166-15				
145-174	220	014-0061-04	040-0166-15				
145-174	250	014-0036-20	040-0166-15				
189-227	330	014-0006-13	040-0166-19				
145-174	250	014-0036-20	040-0166-15	43-52	220	014-0061-12	040-0166-15
145-174	220	014-0061-04	040-0166-19	43-52	330	014-0061-16	040-0166-19
145-174	220	014-0061-04	040-0166-19	43-52	330	014-0061-16	040-0166-19
145-174	250	014-0036-20	040-0166-15	43-52	330	014-0061-16	040-0166-15
189-227	330	014-0006-13	040-0166-14	43-52	330	014-0061-16	040-0166-14
145-174	250	014-0036-20	040-0166-15	43-52	330	014-0061-16	040-0166-15
189-227	330	014-0006-13	040-0166-15	64-77	330	014-0061-13	040-0166-15
189-227	330	014-0006-13	040-0166-23				
189-227	330	014-0006-13	040-0166-23				
270-324	330	014-0006-15	040-0166-27				

HIGH STARTING TORQUE COMPONENTS				LOW STARTING TORQUE COMPONENTS			
START CAPACITOR			START RELAY PART NUMBER	START CAPACITOR			START RELAY PART NUMBER
MFD	VOLTS	PART NUMBER		MFD	VOLTS	PART NUMBER	
145-174	330	014-0006-16	040-0166-15	72-86	330	014-0061-20	040-0166-15
216-259	330	014-0006-14	040-0166-14	64-77	330	014-0061-13	040-0166-14
189-227	330	014-0006-13	040-0166-19				
189-227	330	014-0006-13	040-0166-19				

# Copelaweld CF/CS Compressors

## “STANDARD” BILLS OF MATERIAL

The bill of material number shown includes items shown by the X.

MODEL	BILL OF MATERIAL NUMBER	STUB TUBE CONNECTIONS STRAIGHT SUCTION AND ELBOW-UP DISCHARGE AND PROCESS	STUB TUBE CONNECTIONS ALL ELBOW-UP	ROVALOCK CONNECTIONS WITH GAGE PORTS AND GAGE PORT BRASS CAPS	CRANKCASE HEATER, HEATER WELL, AND RETAINER	RUN CAPACITOR, HIGH TORQUE START CAPACITOR, AND START RELAY	RUN CAPACITOR, HIGH TORQUE START CAPACITOR AND START RELAY ASSEMBLY	OIL SIGHT GLASS	SERVICE VALVE KIT 510-0331-04	GROUNDING SCREW AND WASHER	PUSH-ON ELECTRICAL TERMINAL CONNECTIONS	CONDUIT-READY TERMINAL COVER
CF04	501	X									X	
	502		X								X	
	503		X		X						X	X
TO	505			X							X	
	506	X			X						X	
CF12	507			X	X						X	
	509			X	X			X			X	
AND	518			X			X	X	X	X	X	
	522	X			X					X	X	
CS08	523			X	X					X	X	
	525		X		X					X	X	
TO	546	X			X	X					X	
CS27	549			X	X	X		X			X	
	550	X			X			X		X	X	
	551			X	X			X		X	X	
	552			X	X			X	X	X	X	
	553			X	X	X		X	X	X	X	
	579			X	X		X		X		X	



## “STANDARD” BILLS OF MATERIAL

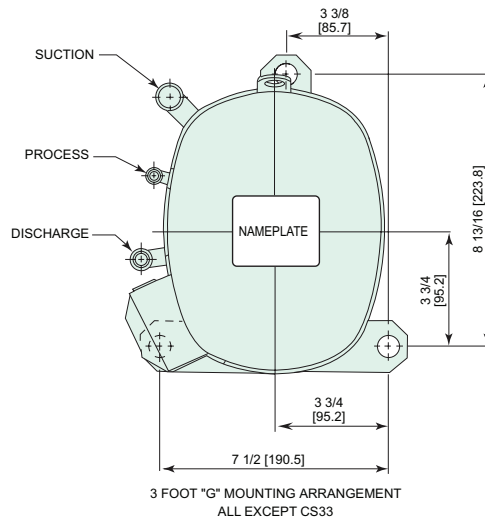
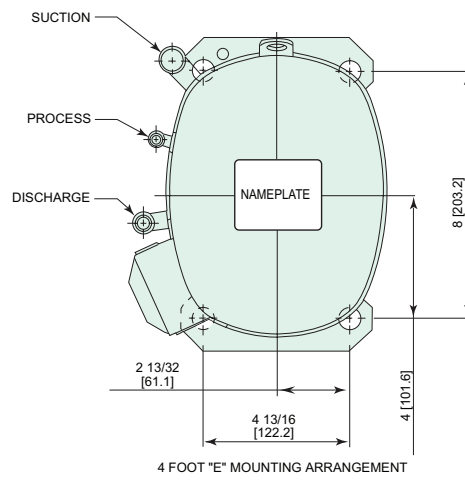
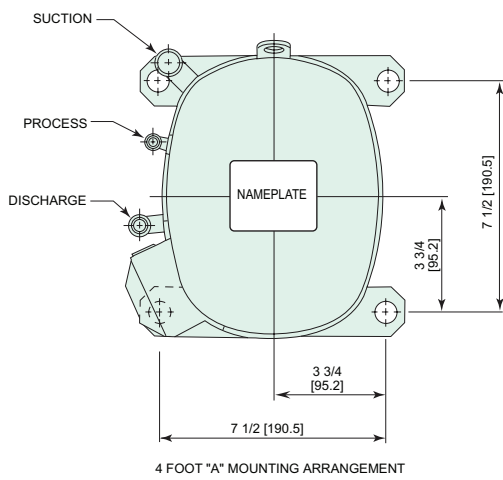
The bill of material number shown includes items shown by the X.

MODEL	BILL OF MATERIAL NUMBER	STUB TUBE CONNECTIONS STRAIGHT SUCTION AND ELBOW-UP DISCHARGE AND PROCESS	STUB TUBE CONNECTIONS ALL ELBOW-UP	ROTALOCK CONNECTIONS WITH GAGE PORTS AND GAGE PORT BRASS CAPS	CRANKCASE HEATER, HEATER WELL, AND RETAINER	RUN CAPACITOR, HIGH TORQUE START CAPACITOR, AND START RELAY	RUN CAPACITOR, HIGH TORQUE START CAPACITOR AND START RELAY ASSEMBLY	OIL SIGHT GLASS	SERVICE VALVE KIT 510-0331-07	GROUNDING SCREW AND WASHER	PUSH-ON ELECTRICAL TERMINAL CONNECTIONS	TERMINAL CONNECTOR BLOCK WITH SCREWS	CONDUIT-READY TERMINAL COVER
CS33	501	X										X	
	502		X									X	
	503		X		X							X	X
	505			X								X	
	506	X			X							X	
	507			X	X							X	
	509			X	X				X			X	
	518			X			X		X	X		X	
	522	X			X					X		X	
	523			X	X					X		X	
	525		X		X					X		X	
	546	X			X	X						X	
	549			X	X	X			X			X	
	550	X			X			X		X		X	
	551			X	X			X		X		X	
	552			X	X			X	X	X		X	
	553			X	X	X		X	X	X		X	
	579			X	X		X		X			X	
597	X			X					X	X			

# Copelaweld CF/CS Compressors

<b>NOTES:</b>
1. ALL TOLERANCES $\pm 0.125$ [3.18] UNLESS OTHERWISE SPECIFIED.
2. STUB TUBE CONNECTIONS ARE SHOWN.
3. LINEAR MEASUREMENTS IN [ ] ARE MILLIMETER CONVERSIONS.

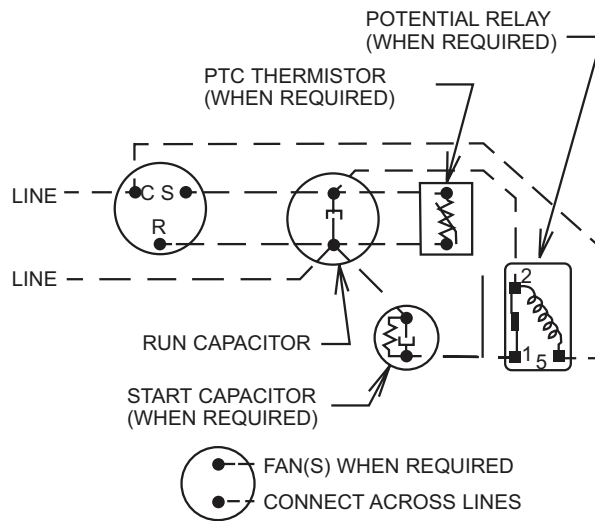
## MOUNTING INFORMATION



FOR THE INTERNATIONAL MARKET  
CF/CS  
COMPRESSOR MOUNTING OPTIONS

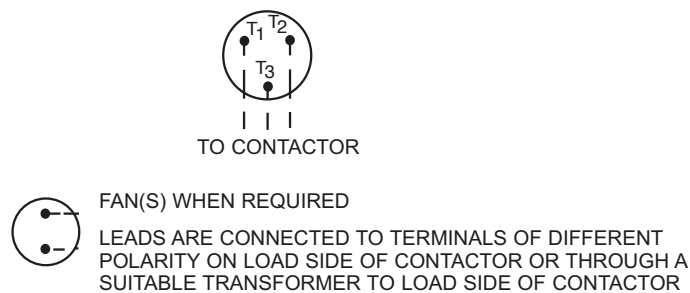
COMPRESSOR WIRING DIAGRAMS

SINGLE PHASE MOTOR



CRANKCASE HEATER, WHEN PROVIDED, MUST BE FIELD CONNECTED TO SEPARATE VOLTAGE SOURCE  
 USE THIS EQUIPMENT ON A GROUND SYSTEM ONLY  
 USE COPPER CONDUCTORS ONLY

THREE PHASE MOTOR



CRANKCASE HEATER, WHEN PROVIDED, MUST BE FIELD CONNECTED TO SEPARATE VOLTAGE SOURCE  
 USE THIS EQUIPMENT ON A GROUND SYSTEM ONLY  
 USE COPPER CONDUCTORS ONLY



# Copelaweld CF/CS Compressors

<b>50 HERTZ</b>			<b>PERFORMANCE DATA</b>			<b>R404A</b>		
40 °F (4.4 °C) Return Gas		0 °F (0 °K) Subcooling			95° F (35° C) Ambient (Air Over)			
200-1-50 (PFV) Rated Voltage				200-1-50 (PFV) Test Voltage				

## CF04K6E-PFV

### CAPACITY (BTU/HOUR)

CONDENSING TEMPERATURE °F/°C	EVAPORATING TEMPERATURE °F/°C								
	-30 -34.4	-25 -31.7	-20 -28.9	-15 -26.1	-10 -23.3	-5 -20.6	0 -17.8	5 -15.0	10 -12.2
80 (26.7)	3000	3770	4570	5450	6420	7520	8770	10200	11900
100 (37.8)	2010	2670	3350	4090	4910	5850	6930	8180	9640
120 (48.9)	1020	1490	1970	2500	3090	3790	4630	5620	6810

### CAPACITY (KCAL/HOUR)

°F/°C	-30 -34.4	-25 -31.7	-20 -28.9	-15 -26.1	-10 -23.3	-5 -20.6	0 -17.8	5 -15.0	10 -12.2
	80 (26.7)	760	950	1150	1370	1620	1900	2210	2570
100 (37.8)	510	670	840	1030	1240	1470	1750	2060	2430
120 (48.9)	260	380	500	630	780	960	1170	1420	1720

### CAPACITY (WATTS)

°F/°C	-30 -34.4	-25 -31.7	-20 -28.9	-15 -26.1	-10 -23.3	-5 -20.6	0 -17.8	5 -15.0	10 -12.2
	80 (26.7)	880	1100	1340	1600	1880	2200	2570	2990
100 (37.8)	590	780	980	1200	1440	1710	2030	2400	2820
120 (48.9)	300	440	580	730	910	1110	1360	1650	2000

### POWER (MOTOR WATTS)

°F/°C	-30 -34.4	-25 -31.7	-20 -28.9	-15 -26.1	-10 -23.3	-5 -20.6	0 -17.8	5 -15.0	10 -12.2
	80 (26.7)	614	687	756	819	878	931	979	1020
100 (37.8)	599	683	767	851	933	1020	1100	1180	1250
120 (48.9)	559	646	737	832	931	1030	1140	1250	1360

## CF04K6E-TF5/D

200/240-3-50 (TF5) 380/420-3-50 (TFD) Rated Voltage	220-3-50 (TF5) 380-3-50 (TFD) Test Voltage
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### CAPACITY (BTU/HOUR)

CONDENSING TEMPERATURE °F/°C	EVAPORATING TEMPERATURE °F/°C								
	-30 -34.4	-25 -31.7	-20 -28.9	-15 -26.1	-10 -23.3	-5 -20.6	0 -17.8	5 -15.0	10 -12.2
80 (26.7)	2810	3470	4220	5060	6000	7060	8250	9580	11100
100 (37.8)	1990	2550	3170	3870	4670	5580	6590	7740	9020
120 (48.9)	1180	1560	2000	2520	3110	3800	4590	5490	6520

### CAPACITY (KCAL/HOUR)

°F/°C	-30 -34.4	-25 -31.7	-20 -28.9	-15 -26.1	-10 -23.3	-5 -20.6	0 -17.8	5 -15.0	10 -12.2
	80 (26.7)	710	870	1060	1280	1510	1780	2080	2410
100 (37.8)	500	640	800	980	1180	1410	1660	1950	2270
120 (48.9)	300	390	500	640	780	960	1160	1380	1640

### CAPACITY (WATTS)

°F/°C	-30 -34.4	-25 -31.7	-20 -28.9	-15 -26.1	-10 -23.3	-5 -20.6	0 -17.8	5 -15.0	10 -12.2
	80 (26.7)	820	1020	1240	1480	1760	2070	2420	2810
100 (37.8)	580	750	930	1130	1370	1630	1930	2270	2640
120 (48.9)	350	460	590	740	910	1110	1340	1610	1910

### POWER (MOTOR WATTS)

°F/°C	-30 -34.4	-25 -31.7	-20 -28.9	-15 -26.1	-10 -23.3	-5 -20.6	0 -17.8	5 -15.0	10 -12.2
	80 (26.7)	585	651	712	771	826	877	925	970
100 (37.8)	570	648	726	804	882	959	1040	1120	1200
120 (48.9)	531	615	702	793	888	986	1090	1190	1300

Production compressors to meet above nominal performance values within ± 5%.

50 HERTZ		PERFORMANCE DATA		R404A	
40 °F (4.4 °C) Return Gas		0 °F (0 °K) Subcooling		95° F (35° C) Ambient (Air Over)	
200-1-50 (PFV) Rated Voltage			200-1-50 (PFV) Test Voltage		

**CF06K6E-PFV**

**CAPACITY (BTU/HOUR)**

CONDENSING TEMPERATURE °F/°C	EVAPORATING TEMPERATURE °F/°C								
	-30 -34.4	-25 -31.7	-20 -28.9	-15 -26.1	-10 -23.3	-5 -20.6	0 -17.8	5 -15.0	10 -12.2
80 (26.7)	4940	6000	7180	8460	9810	11200	12700	14200	15800
100 (37.8)	3390	4290	5300	6410	7610	8880	10200	11600	13000
120 (48.9)	2200	2840	3600	4470	5430	6460	7560	8700	9880

**CAPACITY (KCAL/HOUR)**

CONDENSING TEMPERATURE °F/°C	EVAPORATING TEMPERATURE °F/°C								
	-30 -34.4	-25 -31.7	-20 -28.9	-15 -26.1	-10 -23.3	-5 -20.6	0 -17.8	5 -15.0	10 -12.2
80 (26.7)	1240	1510	1810	2130	2470	2820	3200	3580	3980
100 (37.8)	850	1080	1340	1620	1920	2240	2570	2920	3280
120 (48.9)	550	720	910	1130	1370	1630	1910	2190	2490

**CAPACITY (WATTS)**

CONDENSING TEMPERATURE °F/°C	EVAPORATING TEMPERATURE °F/°C								
	-30 -34.4	-25 -31.7	-20 -28.9	-15 -26.1	-10 -23.3	-5 -20.6	0 -17.8	5 -15.0	10 -12.2
80 (26.7)	2090	2580	3110	3690	4340	4980	5680	6420	7180
100 (37.8)	1500	1890	2330	2810	3340	3900	4480	5100	5770
120 (48.9)	1010	1300	1630	2000	2410	2860	3340	3840	4370

**POWER (MOTOR WATTS)**

CONDENSING TEMPERATURE °F/°C	EVAPORATING TEMPERATURE °F/°C								
	-30 -34.4	-25 -31.7	-20 -28.9	-15 -26.1	-10 -23.3	-5 -20.6	0 -17.8	5 -15.0	10 -12.2
80 (26.7)	1030	1130	1230	1320	1410	1490	1540	1570	1570
100 (37.8)	980	1100	1220	1350	1480	1590	1700	1790	1850
120 (60.0)	910	1030	1170	1310	1460	1610	1750	1880	2000

**CF06K6E-TF5/D**

200/240-3-50 (TF5) 380/420-3-50 (TFD) Rated Voltage	220-3-50 (TF5) 380-3-50 (TFD) Test Voltage
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**CAPACITY (BTU/HOUR)**

CONDENSING TEMPERATURE °F/°C	EVAPORATING TEMPERATURE °F/°C								
	-30 -34.4	-25 -31.7	-20 -28.9	-15 -26.1	-10 -23.3	-5 -20.6	0 -17.8	5 -15.0	10 -12.2
80 (26.7)	5160	6200	7380	8690	10100	11700	13400	15100	17000
100 (37.8)	3510	4390	5390	6520	7760	9100	10500	12100	13700
120 (48.9)	2200	2840	3600	4470	5440	6500	7650	8880	10200

**CAPACITY (KCAL/HOUR)**

CONDENSING TEMPERATURE °F/°C	EVAPORATING TEMPERATURE °F/°C								
	-30 -34.4	-25 -31.7	-20 -28.9	-15 -26.1	-10 -23.3	-5 -20.6	0 -17.8	5 -15.0	10 -12.2
80 (26.7)	1300	1560	1860	2190	2550	2950	3380	3810	4280
100 (37.8)	880	1110	1360	1640	1960	2290	2650	3050	3450
120 (60.0)	550	720	910	1130	1370	1640	1930	2240	2570

**CAPACITY (WATTS)**

CONDENSING TEMPERATURE °F/°C	EVAPORATING TEMPERATURE °F/°C								
	-30 -34.4	-25 -31.7	-20 -28.9	-15 -26.1	-10 -23.3	-5 -20.6	0 -17.8	5 -15.0	10 -12.2
80 (26.7)	1510	1820	2160	2550	2960	3430	3930	4420	4980
100 (37.8)	1030	1290	1580	1910	2270	2670	3080	3550	4010
120 (60.0)	640	830	1050	1310	1590	1900	2240	2600	2990

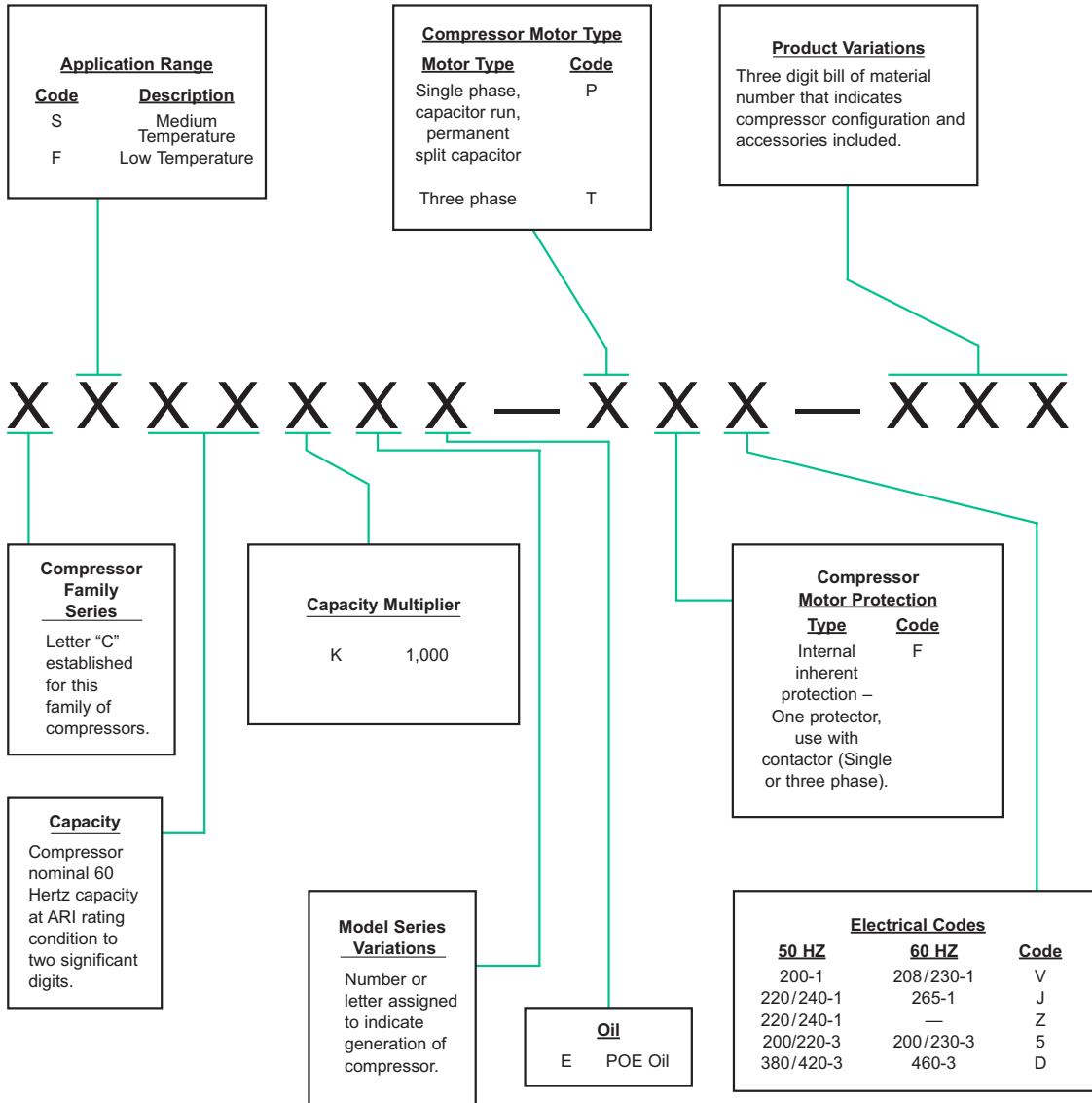
**POWER (MOTOR WATTS)**

CONDENSING TEMPERATURE °F/°C	EVAPORATING TEMPERATURE °F/°C								
	-30 -34.4	-25 -31.7	-20 -28.9	-15 -26.1	-10 -23.3	-5 -20.6	0 -17.8	5 -15.0	10 -12.2
80 (26.7)	1010	1120	1230	1330	1430	1520	1600	1660	1690
100 (37.8)	944	1060	1190	1330	1460	1590	1710	1820	1910
120 (60.0)	854	979	1120	1270	1420	1580	1730	1880	2010

Production compressors to meet above nominal performance values within ± 5%.

# Copelaweld CF/CS Compressors

## MODEL NUMBER NOMENCLATURE



## Standard Bills of Material

The bill of material number shown includes items shown by the X.

Model	Bill material number	Stub tube Connections Straight Suction and Elbow-up Discharge And process	Stub tube Connections All elbow-up	Rotalock Connections With gage Ports and Gage port Brass caps	Crankcase Heater, Heater Well, and Retainer	Run Capacitor, High Torque Start Capacitor, And start Relay	Run Capacitor, High Torque Start Capacitor And start Relay Assembly	Oil Sight Glass	Service Valve kit 510-0331-07	Grounding Screw and Washer	Push-on Electrical Terminal Connection	Terminal Connector Block with Screws	Conduit-ready Terminal Cover
CS33	501	X										X	
	502		X									X	
	503		X		X							X	X
	505			X								X	
	506	X			X							X	
	507			X	X							X	
	509			X	X				X			X	
	518			X			X		X	X		X	
	522	X			X					X		X	
	523			X	X					X		X	
	525		X			X				X		X	
	546	X				X	X					X	
	549			X	X	X			X			X	
	550	X				X		X		X		X	
	551			X	X			X	X	X		X	
	552			X	X			X	X	X		X	
	553			X	X	X		X	X	X		X	
579			X	X		X		X			X		
597	X				X				X	X			