

Hermetic Reciprocating Compressors for Refrigeration Applications



Product Brochure
2022 Edition

About Emerson

Emerson’s commercial and residential solutions platform is the world’s leading provider of heating ventilation, air-conditioning and refrigeration solutions, for both residential and commercial applications. It is synonymous with innovation, reliability, energy efficiency and commitment towards a safe and green environment.

The portfolio includes Copeland™ compressors and condensing units, Vilter™ single screw compressors, Dixell™ controllers, Lumity™ temperature management solutions and refrigeration line components

COPELAND™ DIXELL™ VILTER™ COOPER-ATKINS™ LUMITY™

Core Offerings

Commercial Refrigeration

Copeland compressors and condensing units help ensure food quality and safety is maintained, helping minimize wastage while maximizing profits.



Industrial Refrigeration

With over 150 years of refrigeration experience, Vilter compressors provide superior reliability with the lowest life-cycle costs and are optimized for process cooling applications.



Cargo Tracking & Monitoring

Data loggers and trackers help monitor temperature and humidity of perishable goods in transit. The increased visibility helps ensure shipments arrive safe and fresh at their destinations.



Food Temperature Management and Monitoring Solutions

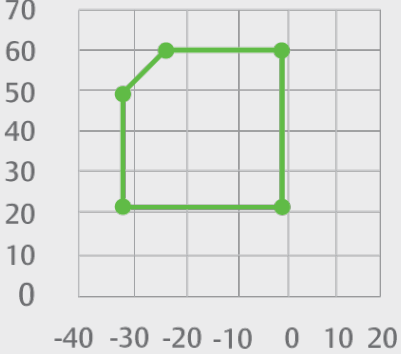
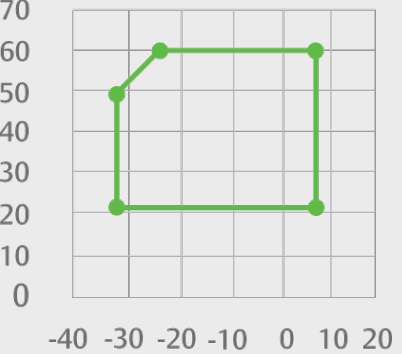
Cooper-Atkins™ monitoring solutions for the food service industry help ensure proper food temperatures are maintained and safety standards are kept.



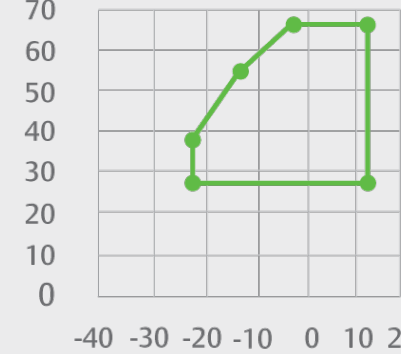
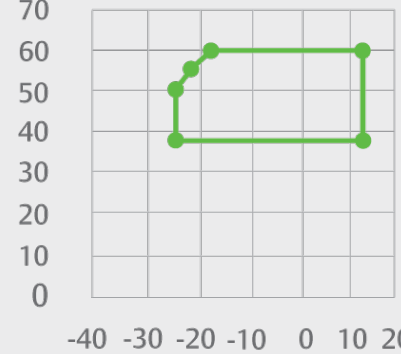
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Hermetic Reciprocating Compressor Line-Up

	CSK6	CSK7
		
Envelope*		
Range (HP)	1.5 – 5 HP	1 – 5.5 HP
Range (kW)	2.4 – 8.1 kW	2.4 – 8.1 kW
Refrigerant	R404A	R22, R404A, R448A, R449A
Designed for	Medium to extended medium temp	Medium to extended medium temp
Description	Highly efficient and reliable US design for MT and Ext MT (-32°C to +0°C)	Extended envelop version of CSK6 to allow for better pull-down performance

* X - axis: Evaporating Temp (°C)
Y - axis: Condensing Temp (°C)

CR	KCM
	
	
1.5 – 5 HP	1 – 4.5 HP
2.8 – 12.8 kW	2.7 – 8.7 kW
R22, R407C	R134a, R404A
High temp medium temp	Medium temp
Efficient HT and MT compressors designed for tropical climates	Reliable medium temp compressor with proven track record in tropical climates

Compressor Cross Reference Table

50 Hz Reference

HP	ZB	Capacity kW	CSK6	Capacity kW	CSK7	Capacity kW
1						
1.5			CS10K6	2.48	CS10K7	2.49
1.75						
2	ZB15KQE	3.24	CS13K6	3.40	CS13K7	3.42
2.5	ZB19KQE	4.14	CS17K6	4.11	CS17K7	4.11
3	ZB21KQE	4.96	CS20K6	4.72	CS20K7	4.72
3.5	ZB26KQE	5.80	CS24K6	5.40	CS24K7	6.21
4	ZB29KQE	6.73	CS27K6	6.51	CS27K7	7.29
4.5			CS30K6	7.14	CS30K7	8.43
5	ZB38KQE	8.49	CS33K6	8.05	CS33K7	9.02

Conditions: Evaporating Temp -6.7°C; Condensing Temp 48.9°C Suction Gas 4.4°C; 50Hz; R404A
Except CR is R22 Refrigerant

60 Hz Reference

HP	ZB	Capacity kW	CSK6	Capacity kW	CSK7	Capacity kW
1						
1.5			CS10K6	2.87	CS20K7	3.31
1.75						
2	ZB15KQE	3.88	CS12K6	3.52	CS24K7	4.01
2.5	ZB19KQE	4.53	CS14K6	4.13		
2.75			CS18K6	5.16		
3	ZB21KQE	5.83	CS20K6	5.71	CS37K6	6.25
3.25			CS24K6	6.55		
3.5	ZB26KQE	6.97	CS27K6	6.71		
3.75						
4	ZB29KQE	8.09	CS30K6	8.19	CS47K7	8.18
4.5			CS33K6	9.17		
5	ZB38KQE	10.20			CS62K7	10.87

Conditions: Evaporating Temp -6.7°C; Condensing Temp 48.9°C Suction Gas 4.4°C; 60Hz; R404A
Except CR is R22 Refrigerant

CRK6	Capacity kW	KCM	Capacity kW	Competitor T Recip	Capacity kW	Competitor D Recip	Capacity kW
				C*J4517	1.96	M**018	2.08
CR22K6	2.81	KCM511CAL	2.70	C*J4519	2.51		
				T*H4522	2.79	M**022	2.83
CR24K6	3.25	KCM514CAL	3.78	T*H4524	3.24	M**028	3.70
CR30K6	3.96	KCM519CAL	4.55	T*H4531	4.20	M**032	4.27
CR36K6	4.84	KCM522CAL	5.24	T*H4540	5.47		
CR42K6	5.71			T*G4553	5.97	M**036	5.69
CR47K6	7.21	KCM530CAL	7.23	T*G4561	6.81	M**050	6.72
CR53K6	7.85					M**056	7.26
CR57K6	7.97	KCM536CAL	8.72	T*G4568	8.15	M**064	8.60

CR	Capacity kW	Competitor T Recip	Capacity kW	Competitor D Recip	Capacity kW
		C*J4517	2.49		
CR18K8	2.75	T*J4519	2.88	M**018	2.63
CR20K6	3.12	A**4522	3.31		
CR24K6	3.61	A**4524	3.73	M**022	3.61
CR32K6	4.72	A**4532	4.49	M**028	4.68
				M**032	5.12
CR42K6	6.20	A**4538	5.44	M**036	5.92
		A**4546	6.48		
				M**040	6.75
		T*G4553	7.46	M**044	7.13
CR47KQ	8.09	T*G4561	8.17	M**050	8.38
CR56KQ	8.85	T*G4568	10.11	M**056	9.51
CR62KQ	10.21	T*G4573	10.82	M**064	10.56

C-Series Nomenclature

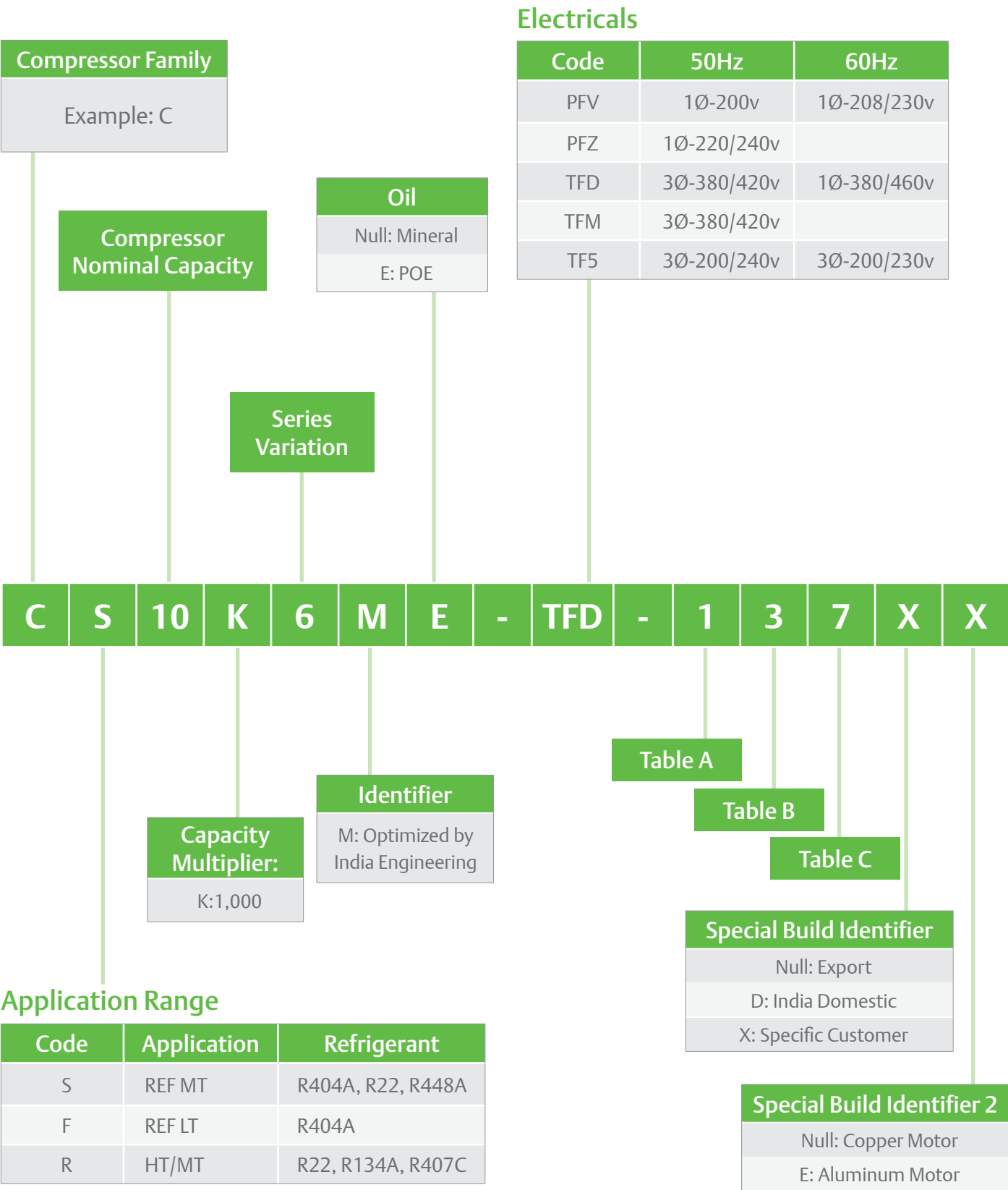


Table A: Base Configuration

	Details	1	2	3	4	5	6
Mounting Type	A Type (Long leg)	✓	✓				
	B Type (Short leg)			✓		✓	
	G Type (Three leg)				✓		
	Others						✓
Mounting Kit	Standard	✓	✓	✓	✓		
	Others					✓	✓
Terminal Fence	Standard	✓		✓	✓	✓	✓
	Rectangular		✓				

Table B: Tubing Configuration

	Details	0	1	2	3	4	5	6
Suction	Tube upward	✓				✓		
	Tube angular		✓	✓			✓	
	SPUD				✓			
	STUB							✓
Discharge	TUBE	✓	✓	✓		✓	✓	✓
	SPUD				✓			
Process	Tube upward	✓	✓		✓			✓
	TUBE horizontal			✓				
	Inclined outwards					✓	✓	

Table C: Accesories

	Details	1	2	3	4	5	6	7	8	9	0	A	B
Crank Case Heater	No CCH	✓			✓					✓	✓		
	240 CCH		✓			✓		✓				✓	
	480 CCH			✓			✓		✓				✓
ACC Kit	No starting kit	✓	✓	✓							✓	✓	✓
	Standard starting kit				✓	✓	✓	✓	✓	✓			
Protection	No sight glass	✓	✓	✓	✓	✓	✓						
	Sight glass							✓	✓	✓	✓	✓	✓

KC-Series Nomenclature

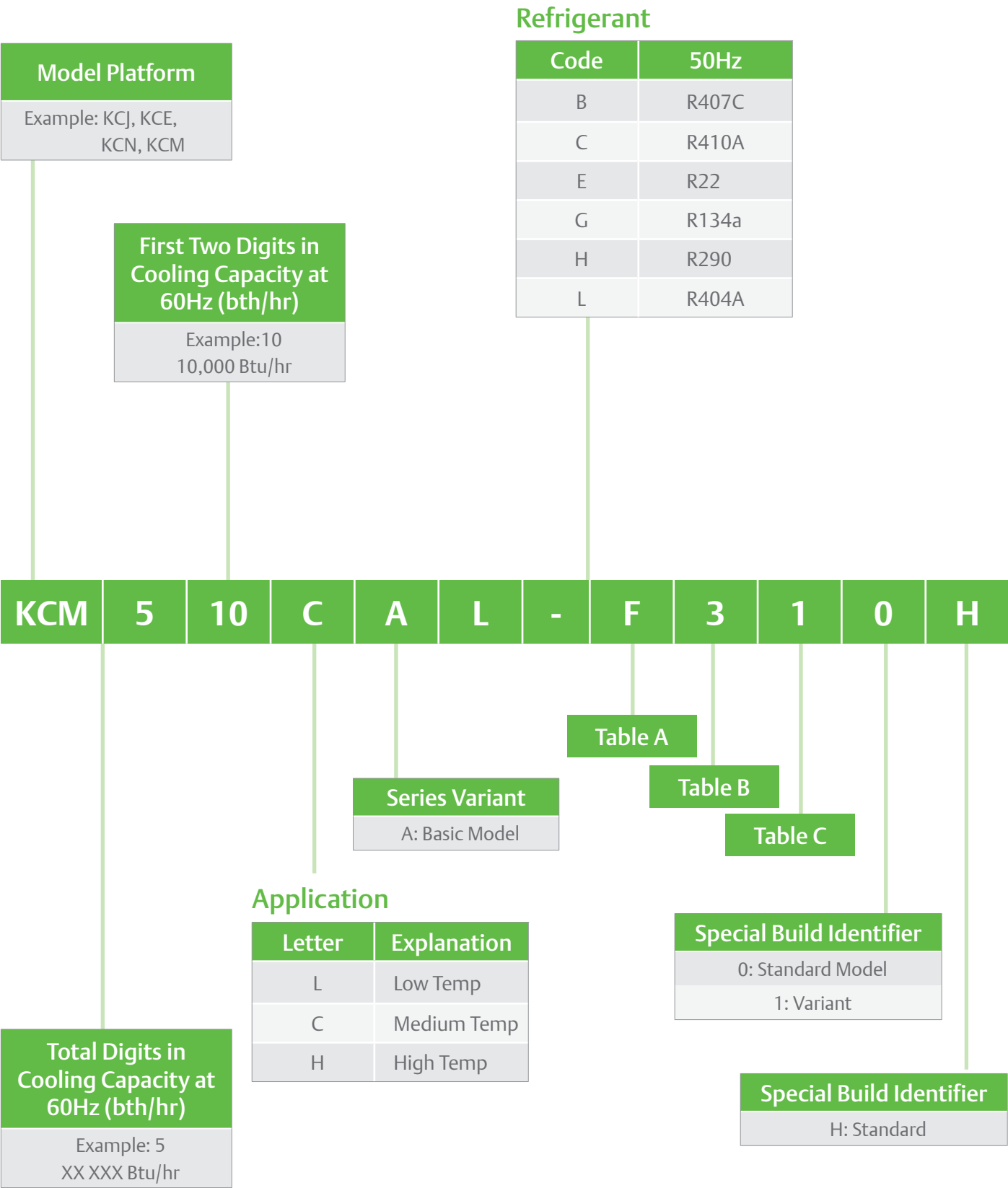


Table A: Voltage

Hz	Details	Voltage Range
50 Hz	B	180-260V, 1 Ph
	C	198-264V, 1 Ph
	F	198-264V, 1 Ph
	E	342-460V, 3 Ph
50 Hz/ 60Hz	S	207-253V, 60Hz, 1 Ph 198-264V, 50Hz, 1 Ph
	T	198-242V, 60Hz, 1 Ph 180-260V, 50Hz, 1 Ph
	U	197-253V, 60Hz, 1 Ph 180-260V, 50Hz, 1 Ph
	V	207-253V, 60Hz, 1 Ph 180-260V, 50Hz, 1 Ph

Table B: Motor Circuit

Code	Explanation
1	✓
2	Capacitor-Start
3	Capacitor-Start & Capacitor-Run
5	3 Phase

Table C: Mounting Options

Code	Explanation
1	4 Leg: 7.50" x 7.50" (190 x 190 MM)
2	4 Leg: 4.80" x 8.00" (122 x 202 MM)
3	4 Leg: 4.00" x 6.50" (102 x 165 MM) 2.75" x 6.69" (70 x 170 MM)
4	3 Leg: 6.12" x 8.00" (155 x 202 MM)
5	3 Leg: 8.44" x 9.75" (214 x 248 MM)
6	3 Leg: 6.53" x 8.68" (166 x 220 MM)
7	4 Leg: 4.00" x 6.50" (102 x 165 MM) 2.75" x 6.69" (70 x 170 MM)

CSK6 Performance Data (1 of 3)

R404A 50Hz

Model		Condensing Temp		Evaporating Temp									
				-31.7°C	-26.1°C	-23.3°C	-20.6°C	-17.8°C	-15.0°C	-12.2°C	-9.4°C	-6.7°C	-3.9°C
				-25°F	-15°F	-10°F	-5°F	0°F	5°F	10°F	15°F	20°F	25°F
CS10K6 (1.5 HP)	Capacity (kW)	21.1°C	70°F	1.24	1.78	2.12	2.51	2.95	3.44	3.98	4.57	5.22	5.93
		26.7°C	80°F	1.07	1.56	1.87	2.22	2.61	3.05	3.54	4.07	4.66	5.30
		32.3°C	90°F	0.87	1.32	1.59	1.91	2.26	2.65	3.09	3.57	4.09	4.66
		37.8°C	100°F	0.66	1.07	1.31	1.59	1.91	2.26	2.64	3.07	3.53	4.04
		43.3°C	110°F	0.45	0.82	1.04	1.29	1.56	1.87	2.21	2.58	2.99	3.43
		48.9°C	120°F	0.26	0.59	0.78	1.00	1.24	1.51	1.80	2.13	2.48	2.86
		54.4°C	130°F		0.38	0.55	0.74	0.95	1.18	1.43	1.70	2.00	2.32
		60.0°C	140°F			0.35	0.52	0.69	0.89	1.10	1.32	1.57	1.84
	Power (kW)	21.1°C	70°F	0.66	0.81	0.87	0.92	0.97	1.02	1.05	1.09	1.12	1.15
		26.7°C	80°F	0.66	0.81	0.88	0.94	0.99	1.04	1.08	1.13	1.16	1.20
		32.3°C	90°F	0.67	0.83	0.90	0.96	1.02	1.07	1.12	1.17	1.22	1.26
		37.8°C	100°F	0.68	0.85	0.92	0.99	1.05	1.11	1.17	1.22	1.27	1.32
		43.3°C	110°F	0.69	0.86	0.94	1.02	1.09	1.15	1.21	1.27	1.33	1.39
		48.9°C	120°F	0.70	0.88	0.96	1.04	1.11	1.18	1.25	1.32	1.38	1.44
		54.4°C	130°F		0.88	0.97	1.05	1.13	1.20	1.28	1.35	1.42	1.49
		60.0°C	140°F			0.97	1.05	1.13	1.21	1.29	1.37	1.44	1.52
CS11K6 (1.75 HP)	Capacity (kW)	21.1°C	70°F	1.35	1.94	2.31	2.74	3.21	3.74	4.33	4.98	5.68	6.45
		26.7°C	80°F	1.16	1.70	2.03	2.41	2.84	3.32	3.85	4.44	5.07	5.76
		32.3°C	90°F	0.95	1.43	1.73	2.08	2.46	2.89	3.36	3.89	4.46	5.08
		37.8°C	100°F	0.72	1.16	1.43	1.73	2.08	2.46	2.88	3.34	3.85	4.40
		43.3°C	110°F	0.50	0.89	1.13	1.40	1.70	2.04	2.41	2.81	3.26	3.74
		48.9°C	120°F	0.28	0.64	0.85	1.09	1.35	1.64	1.96	2.31	2.70	3.11
		54.4°C	130°F		0.41	0.60	0.80	1.03	1.28	1.55	1.85	2.18	2.53
		60.0°C	140°F			0.38	0.56	0.76	0.97	1.19	1.44	1.71	2.00
	Power (kW)	21.1°C	70°F	0.70	0.86	0.93	0.99	1.04	1.09	1.13	1.16	1.20	1.23
		26.7°C	80°F	0.72	0.88	0.95	1.01	1.07	1.12	1.17	1.21	1.25	1.29
		32.3°C	90°F	0.73	0.90	0.98	1.04	1.11	1.16	1.22	1.26	1.31	1.35
		37.8°C	100°F	0.74	0.92	1.00	1.07	1.14	1.20	1.26	1.32	1.37	1.42
		43.3°C	110°F	0.74	0.93	1.01	1.09	1.17	1.24	1.30	1.37	1.43	1.48
		48.9°C	120°F	0.74	0.93	1.02	1.10	1.19	1.26	1.34	1.41	1.48	1.54
		54.4°C	130°F		0.93	1.02	1.10	1.19	1.28	1.36	1.44	1.52	1.59
		60.0°C	140°F			1.02	1.11	1.20	1.28	1.37	1.45	1.54	1.63
CS13K6 (2 HP)	Capacity (kW)	21.1°C	70°F	1.69	2.48	2.94	3.44	3.99	4.60	5.24	5.94	6.69	7.49
		26.7°C	80°F	1.40	2.13	2.55	3.02	3.53	4.08	4.67	5.32	6.01	6.74
		32.3°C	90°F	1.13	1.79	2.18	2.61	3.07	3.57	4.12	4.70	5.33	6.00
		37.8°C	100°F	0.89	1.49	1.84	2.22	2.64	3.09	3.58	4.10	4.67	5.27
		43.3°C	110°F	0.67	1.21	1.51	1.85	2.22	2.62	3.06	3.52	4.02	4.56
		48.9°C	120°F	0.49	0.95	1.22	1.51	1.83	2.18	2.56	2.96	3.40	3.86
		54.4°C	130°F		0.73	0.96	1.20	1.47	1.76	2.08	2.42	2.79	3.18
		60.0°C	140°F			0.72	0.92	1.14	1.38	1.63	1.91	2.21	2.53
	Power (kW)	21.1°C	70°F	0.87	1.06	1.14	1.21	1.28	1.33	1.38	1.43	1.47	1.51
		26.7°C	80°F	0.88	1.08	1.17	1.25	1.32	1.38	1.44	1.49	1.54	1.58
		32.3°C	90°F	0.90	1.11	1.20	1.28	1.36	1.43	1.49	1.55	1.61	1.66
		37.8°C	100°F	0.91	1.13	1.22	1.32	1.40	1.48	1.55	1.62	1.68	1.74
		43.3°C	110°F	0.90	1.14	1.24	1.34	1.43	1.52	1.60	1.68	1.75	1.82
		48.9°C	120°F	0.91	1.14	1.25	1.36	1.46	1.55	1.64	1.73	1.82	1.89
		54.4°C	130°F		1.14	1.25	1.36	1.46	1.57	1.67	1.77	1.86	1.95
		60.0°C	140°F			1.25	1.36	1.47	1.57	1.68	1.79	1.89	2.00

Note: Suction Gas Return 4.4°C

CSK6 Performance Data (2 of 3)

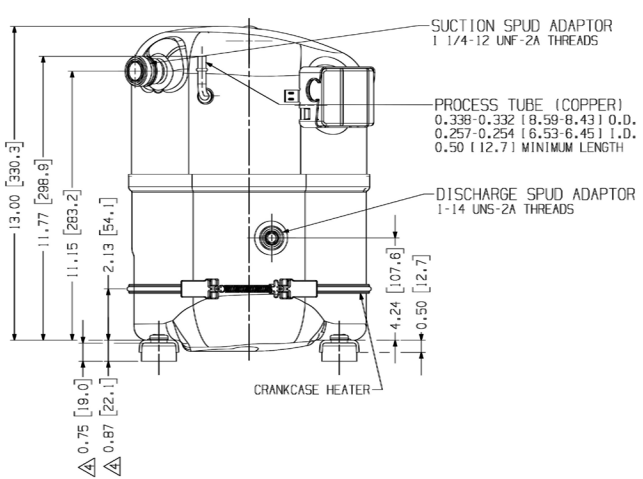
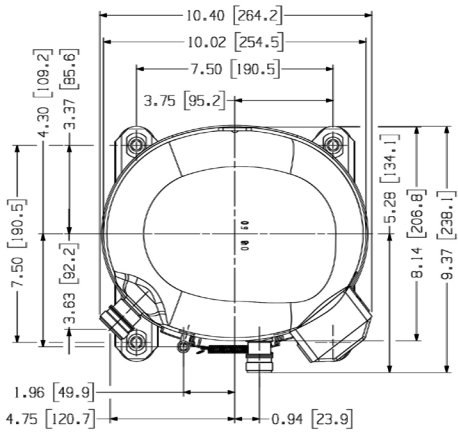
R404A 50Hz

Model		Condensing Temp		Evaporating Temp										
				-31.7°C	-26.1°C	-23.3°C	-20.6°C	-17.8°C	-15.0°C	-12.2°C	-9.4°C	-6.7°C	-3.9°C	-1.1°C
				-25°F	-15°F	-10°F	-5°F	0°F	5°F	10°F	15°F	20°F	25°F	30°F
CS17K6 (2.5 HP)	Capacity (kW)	21.1°C	70°F	2.10	3.02	3.56	4.15	4.81	5.53	6.32	7.19	8.13	9.15	10.26
		26.7°C	80°F	1.77	2.60	3.09	3.64	4.24	4.90	5.63	6.43	7.30	8.25	9.27
		32.3°C	90°F	1.46	2.21	2.65	3.14	3.69	4.29	4.95	5.68	6.48	7.35	8.30
		37.8°C	100°F	1.17	1.83	2.22	2.66	3.15	3.69	4.29	4.95	5.68	6.47	7.34
		43.3°C	110°F	0.91	1.48	1.82	2.20	2.63	3.11	3.64	4.23	4.88	5.60	6.39
		48.9°C	120°F	0.67	1.15	1.44	1.76	2.13	2.55	3.01	3.53	4.11	4.75	5.45
		54.4°C	130°F		0.84	1.08	1.35	1.65	2.00	2.40	2.85	3.35	3.90	4.52
		60.0°C	140°F			0.74	0.95	1.20	1.48	1.81	2.18	2.60	3.08	3.62
	Power (kW)	21.1°C	70°F	1.03	1.25	1.35	1.44	1.51	1.58	1.64	1.70	1.75	1.79	1.84
		26.7°C	80°F	1.05	1.28	1.38	1.48	1.56	1.64	1.70	1.77	1.83	1.88	1.93
		32.3°C	90°F	1.06	1.31	1.42	1.52	1.61	1.69	1.77	1.84	1.91	1.97	2.03
		37.8°C	100°F	1.07	1.34	1.45	1.56	1.66	1.75	1.84	1.92	2.00	2.07	2.14
		43.3°C	110°F	1.07	1.35	1.48	1.59	1.70	1.80	1.90	1.99	2.08	2.16	2.24
		48.9°C	120°F	1.07	1.35	1.48	1.61	1.73	1.84	1.95	2.05	2.15	2.25	2.34
		54.4°C	130°F		1.35	1.48	1.61	1.74	1.86	1.98	2.10	2.21	2.32	2.43
		60.0°C	140°F			1.49	1.61	1.74	1.87	1.99	2.12	2.25	2.37	2.49
CS20K6 (3 HP)	Capacity (kW)	21.1°C	70°F	2.48	3.54	4.15	4.82	5.58	6.44	7.40	8.49	9.71	11.08	12.61
		26.7°C	80°F	2.16	3.13	3.67	4.28	4.96	5.72	6.59	7.56	8.67	9.91	11.30
		32.3°C	90°F	1.81	2.69	3.18	3.72	4.32	5.00	5.77	6.65	7.64	8.76	10.02
		37.8°C	100°F	1.44	2.24	2.68	3.16	3.69	4.29	4.97	5.74	6.62	7.63	8.76
		43.3°C	110°F	1.06	1.80	2.19	2.61	3.07	3.59	4.19	4.87	5.65	6.54	7.55
		48.9°C	120°F	0.69	1.36	1.71	2.08	2.48	2.93	3.45	4.04	4.72	5.50	6.40
		54.4°C	130°F		0.96	1.27	1.59	1.93	2.32	2.76	3.26	3.85	4.53	5.31
		60.0°C	140°F			0.87	1.15	1.44	1.76	2.13	2.56	3.05	3.63	4.31
	Power (kW)	21.1°C	70°F	1.21	1.47	1.58	1.69	1.77	1.85	1.92	1.99	2.04	2.09	2.14
		26.7°C	80°F	1.20	1.48	1.60	1.71	1.81	1.90	1.98	2.05	2.12	2.18	2.24
		32.3°C	90°F	1.22	1.51	1.64	1.75	1.86	1.96	2.05	2.14	2.22	2.29	2.37
		37.8°C	100°F	1.24	1.54	1.68	1.80	1.92	2.03	2.13	2.23	2.32	2.41	2.50
		43.3°C	110°F	1.26	1.58	1.72	1.85	1.98	2.10	2.21	2.32	2.43	2.53	2.63
		48.9°C	120°F	1.27	1.60	1.75	1.89	2.03	2.16	2.28	2.40	2.52	2.64	2.75
		54.4°C	130°F		1.61	1.76	1.91	2.06	2.20	2.33	2.46	2.59	2.72	2.85
		60.0°C	140°F			1.77	1.91	2.06	2.20	2.35	2.49	2.63	2.77	2.92
CS24K6 (3.5 HP)	Capacity (kW)	21.1°C	70°F	2.69	3.83	4.51	5.27	6.10	7.01	7.98	9.03	10.14	11.32	12.56
		26.7°C	80°F	2.33	3.38	4.02	4.73	5.50	6.35	7.26	8.24	9.28	10.39	11.55
		32.3°C	90°F	1.94	2.90	3.49	4.14	4.85	5.63	6.48	7.38	8.35	9.38	10.46
		37.8°C	100°F	1.56	2.41	2.94	3.53	4.18	4.89	5.66	6.49	7.38	8.32	9.31
		43.3°C	110°F	1.21	1.95	2.41	2.93	3.51	4.14	4.84	5.58	6.38	7.23	8.13
		48.9°C	120°F	0.92	1.53	1.92	2.36	2.87	3.42	4.03	4.69	5.40	6.15	6.95
		54.4°C	130°F		1.18	1.50	1.86	2.28	2.75	3.27	3.84	4.45	5.10	5.80
		60.0°C	140°F			1.17	1.46	1.79	2.17	2.59	3.06	3.57	4.11	4.70
	Power (kW)	21.1°C	70°F	1.48	1.80	1.95	2.09	2.22	2.34	2.45	2.55	2.64	2.71	2.78
		26.7°C	80°F	1.46	1.80	1.95	2.10	2.23	2.36	2.47	2.57	2.66	2.74	2.80
		32.3°C	90°F	1.46	1.82	1.98	2.13	2.27	2.40	2.52	2.62	2.71	2.79	2.86
		37.8°C	100°F	1.49	1.86	2.03	2.19	2.33	2.46	2.58	2.69	2.78	2.87	2.93
		43.3°C	110°F	1.52	1.91	2.09	2.25	2.40	2.54	2.66	2.78	2.87	2.96	3.03
		48.9°C	120°F	1.55	1.96	2.15	2.32	2.48	2.62	2.75	2.87	2.97	3.06	3.13
		54.4°C	130°F		2.01	2.21	2.39	2.55	2.70	2.84	2.96	3.06	3.15	3.23
		60.0°C	140°F			2.25	2.44	2.61	2.77	2.91	3.04	3.15	3.24	3.32

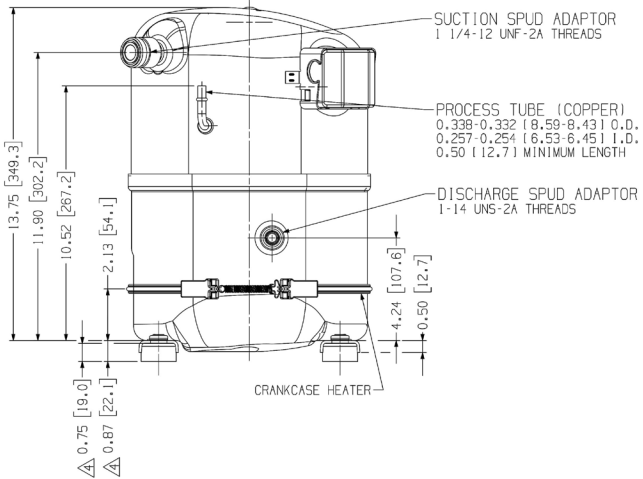
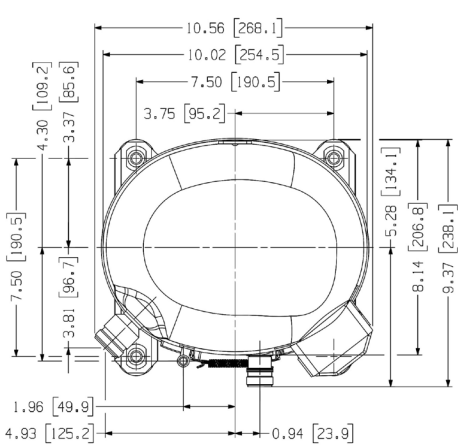
Model		Condensing Temp		Evaporating Temp										
				-31.7°C	-26.1°C	-23.3°C	-20.6°C	-17.8°C	-15.0°C	-12.2°C	-9.4°C	-6.7°C	-3.9°C	-1.1°C
				-25°F	-15°F	-10°F	-5°F	0°F	5°F	10°F	15°F	20°F	25°F	30°F
CS27K6 (4 HP)	Capacity (kW)	21.1°C	70°F	3.24	4.61	5.44	6.36	7.36	8.45	9.63	10.89	12.23	13.65	15.15
		26.7°C	80°F	2.81	4.08	4.85	5.70	6.64	7.66	8.76	9.94	11.20	12.53	13.94
		32.3°C	90°F	2.34	3.50	4.20	4.99	5.85	6.80	7.81	8.91	10.07	11.31	12.62
		37.8°C	100°F	1.88	2.91	3.54	4.25	5.04	5.90	6.83	7.83	8.90	10.03	11.23
		43.3°C	110°F	1.46	2.35	2.90	3.53	4.23	5.00	5.83	6.73	7.70	8.72	9.81
		48.9°C	120°F	1.11	1.84	2.31	2.85	3.46	4.13	4.86	5.66	6.51	7.42	8.39
		54.4°C	130°F		1.42	1.80	2.25	2.76	3.32	3.95	4.63	5.37	6.16	7.00
	60.0°C	140°F			1.41	1.76	2.16	2.61	3.12	3.69	4.30	4.96	5.67	
	Power (kW)	21.1°C	70°F	1.69	2.07	2.24	2.40	2.55	2.68	2.80	2.92	3.02	3.10	3.18
		26.7°C	80°F	1.66	2.06	2.24	2.41	2.56	2.70	2.83	2.94	3.04	3.12	3.20
		32.3°C	90°F	1.67	2.09	2.28	2.46	2.61	2.76	2.89	3.00	3.10	3.19	3.26
		37.8°C	100°F	1.69	2.14	2.34	2.52	2.69	2.84	2.98	3.10	3.20	3.29	3.36
		43.3°C	110°F	1.70	2.18	2.40	2.59	2.77	2.93	3.08	3.20	3.31	3.41	3.48
		48.9°C	120°F	1.70	2.21	2.44	2.65	2.84	3.02	3.17	3.31	3.43	3.52	3.60
54.4°C		130°F		2.22	2.46	2.69	2.89	3.08	3.25	3.39	3.52	3.63	3.71	
60.0°C	140°F			2.46	2.69	2.90	3.10	3.28	3.44	3.58	3.70	3.80		
CS30K6 (4.5 HP)	Capacity (kW)	21.1°C	70°F	3.32	4.83	5.66	6.56	7.54	8.60	9.74	10.99	12.35	13.81	15.41
		26.7°C	80°F	3.03	4.45	5.24	6.10	7.02	8.03	9.13	10.33	11.63	13.04	14.58
		32.3°C	90°F	2.64	3.95	4.68	5.48	6.34	7.29	8.33	9.46	10.70	12.04	13.51
		37.8°C	100°F	2.18	3.36	4.02	4.75	5.55	6.42	7.39	8.44	9.60	10.87	12.26
		43.3°C	110°F	1.72	2.74	3.33	3.97	4.69	5.48	6.36	7.33	8.40	9.58	10.88
		48.9°C	120°F	1.30	2.14	2.64	3.19	3.81	4.51	5.29	6.16	7.14	8.22	9.41
		54.4°C	130°F		1.61	2.01	2.46	2.97	3.56	4.24	5.00	5.86	6.83	7.91
	60.0°C	140°F			1.49	1.82	2.22	2.69	3.25	3.89	4.63	5.47	6.43	
	Power (kW)	21.1°C	70°F	1.86	2.28	2.47	2.64	2.81	2.96	3.10	3.22	3.33	3.43	3.51
		26.7°C	80°F	1.84	2.27	2.47	2.65	2.82	2.98	3.12	3.25	3.36	3.46	3.54
		32.3°C	90°F	1.85	2.30	2.50	2.69	2.87	3.03	3.18	3.31	3.42	3.52	3.61
		37.8°C	100°F	1.88	2.35	2.56	2.76	2.94	3.11	3.26	3.40	3.52	3.62	3.71
		43.3°C	110°F	1.92	2.41	2.64	2.84	3.03	3.21	3.37	3.51	3.63	3.74	3.82
		48.9°C	120°F	1.97	2.48	2.72	2.93	3.13	3.31	3.48	3.62	3.75	3.86	3.95
54.4°C		130°F		2.54	2.79	3.02	3.22	3.41	3.59	3.74	3.87	3.99	4.08	
60.0°C	140°F			2.85	3.09	3.30	3.50	3.68	3.84	3.98	4.10	4.20		
CS33K6 (5 HP)	Capacity (kW)	21.1°C	70°F	3.75	5.44	6.38	7.40	8.50	9.70	10.99	12.40	13.93	15.58	17.38
		26.7°C	80°F	3.42	5.02	5.91	6.88	7.92	9.06	10.30	11.65	13.11	14.71	16.44
		32.3°C	90°F	2.97	4.45	5.28	6.18	7.16	8.23	9.39	10.67	12.07	13.59	15.24
		37.8°C	100°F	2.46	3.79	4.54	5.36	6.26	7.25	8.33	9.53	10.83	12.27	13.83
		43.3°C	110°F	1.94	3.09	3.75	4.48	5.29	6.18	7.17	8.27	9.48	10.81	12.27
		48.9°C	120°F	1.46	2.42	2.97	3.60	4.30	5.09	5.97	6.95	8.05	9.27	10.62
		54.4°C	130°F		1.82	2.26	2.77	3.35	4.02	4.78	5.64	6.61	7.71	8.93
	60.0°C	140°F			1.68	2.06	2.51	3.04	3.66	4.39	5.22	6.18	7.25	
	Power (kW)	21.1°C	70°F	2.12	2.59	2.81	3.01	3.19	3.37	3.52	3.66	3.79	3.90	3.99
		26.7°C	80°F	2.09	2.59	2.82	3.02	3.21	3.39	3.55	3.69	3.81	3.92	4.01
		32.3°C	90°F	2.10	2.63	2.86	3.08	3.28	3.46	3.63	3.77	3.90	4.01	4.10
		37.8°C	100°F	2.12	2.68	2.94	3.17	3.38	3.57	3.74	3.89	4.02	4.13	4.22
		43.3°C	110°F	2.14	2.74	3.01	3.26	3.48	3.68	3.86	4.02	4.16	4.28	4.37
		48.9°C	120°F	2.14	2.78	3.07	3.33	3.57	3.79	3.98	4.15	4.30	4.42	4.53
54.4°C		130°F		2.78	3.09	3.37	3.63	3.87	4.08	4.26	4.42	4.55	4.66	
60.0°C	140°F			3.09	3.37	3.64	3.90	4.12	4.32	4.50	4.64	4.77		

Note: Suction Gas Return 4.4°C

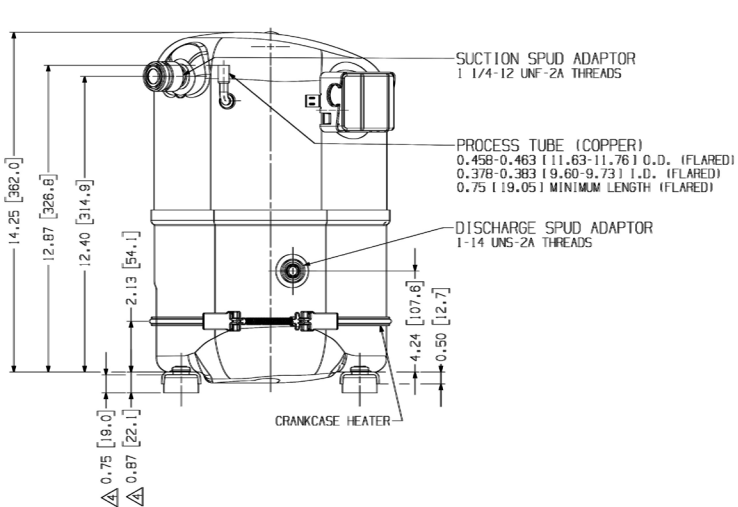
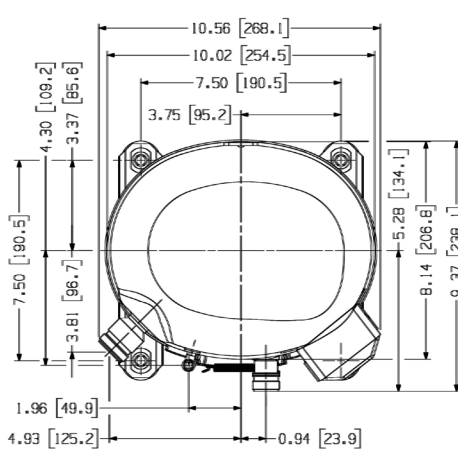
CS10 ,CS11 PFZ



CS10 ,CS11 PFZ



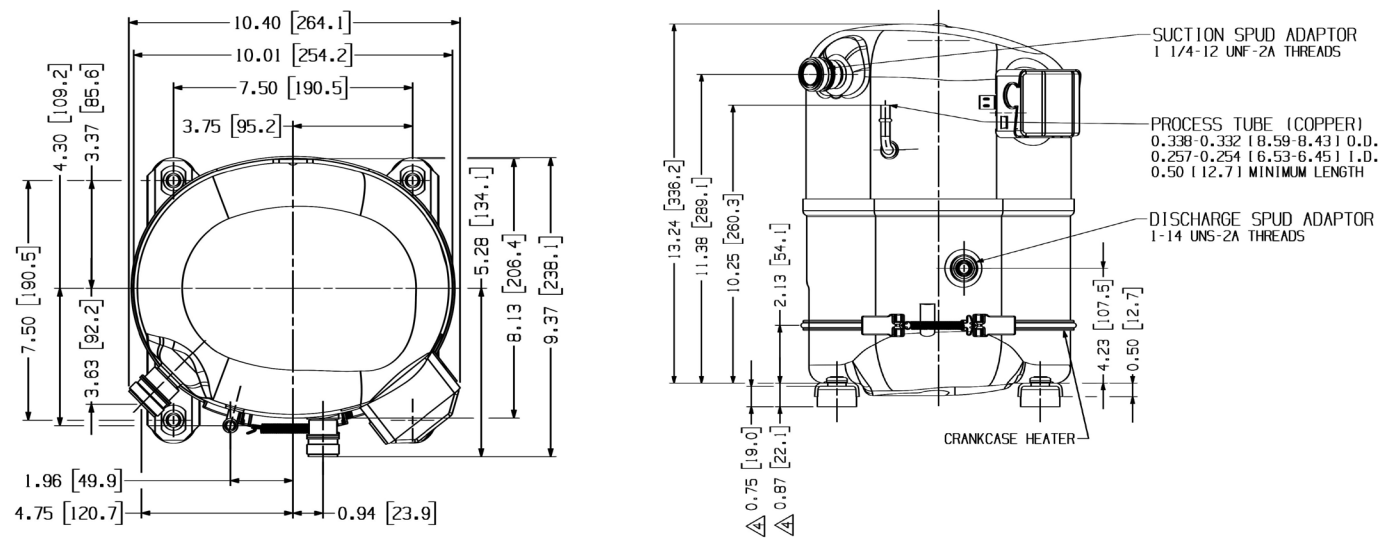
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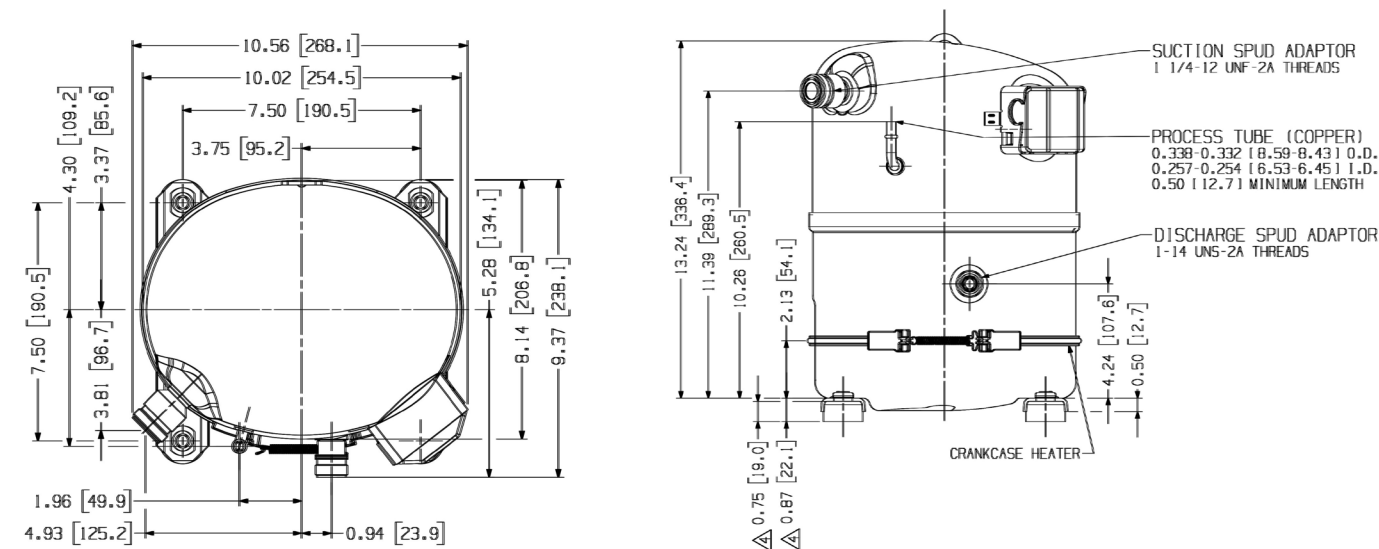
CSK6 Dimension Drawing – TFM/TFD

50Hz

CS10 ,CS11 TFM



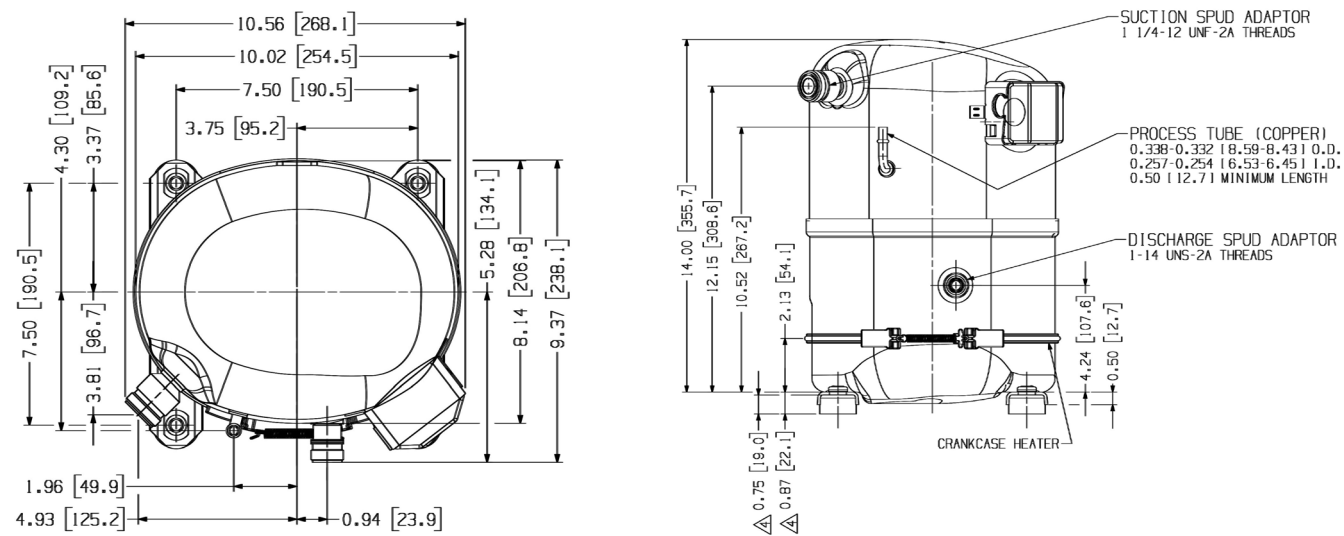
CS13, CS17, TFM



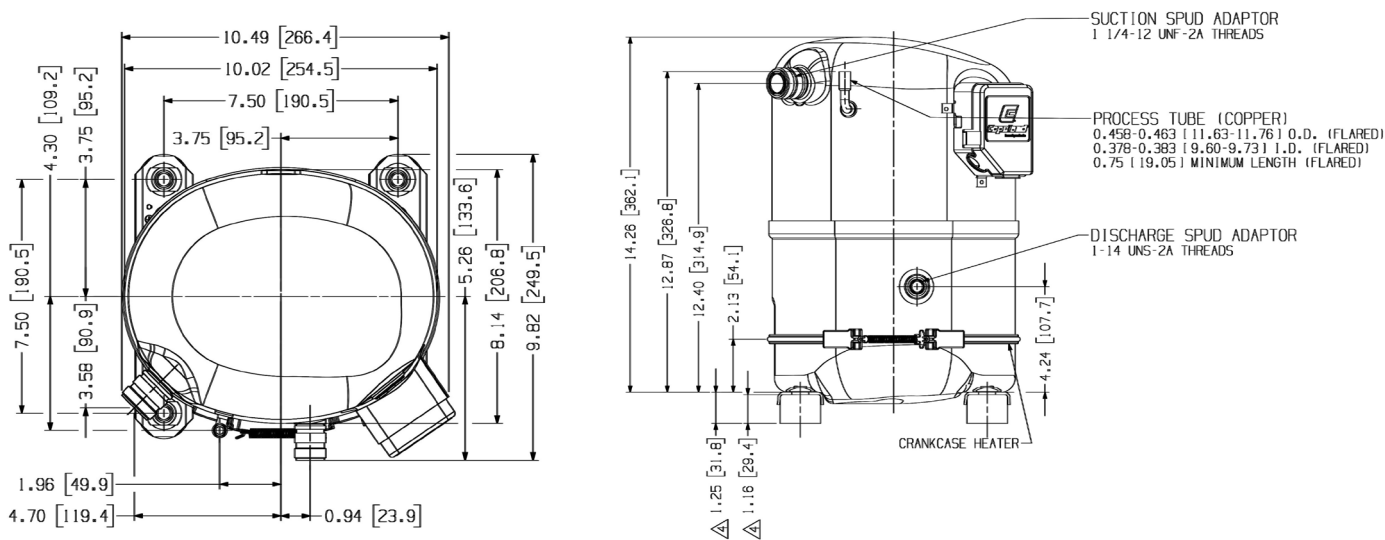
CSK6 Dimension Drawing – TFM/TFD

50Hz

CS20 TFM



CS24, CS27, CS30, CS33 TFD



CSK6 Technical Data (1 of 2)

50 Hz Reference

Compressor Model			CS10K6	CS13K6
Horsepower		HP	1.5 HP	2 HP
Displacement		cm³/rev	40.80	51.45
Maximum Continuous Current (MCC)	PFZ	Amps	13.50	17.80
	TFM/TFD		5.10	6.10
Locked Rotor Ampere	PFZ	Amps	54	78
	TFM/TFD		20	28
Outline Dimension - PFZ		Length (mm)	264	268
		Width (mm)	238	238
		Height (mm)	333	352
Outline Dimension - TFM		Length (mm)	264	268
		Width (mm)	238	238
		Height (mm)	339	339
Mounting Dimension		Length (mm)	191	191
		Width (mm)	191	191
Start Capacitor		µF @ V AC	80 - 100 @ 230	150 - 200 @ 230
Run Capacitor		µF @ V AC	36 @ 440	45 @ 440
Oil Type		KQ- Mineral Oil; KQE - POE Oil		
Oil Charge		cm³	1,330	1,330
Crankcase Heater Power		Watts	35	35
Net Weight		Kg	29.80	30
Compressor Per Pallet		Pcs	24 Pcs Per Pallet	
Compressor Per 20 Feet Container		Pcs	576 Pcs Per 20F Container	
Compressor Per 20 Feet Container		Pcs	720 Pcs Per 40F Container	

CSK6 Technical Data (2 of 2)

50Hz

CS17K6	CS20K6	CS24K6	CS27K6	CS30K6	CS33K6
2.5 HP	3 HP	3.25 HP	3.5 HP	4 HP	4.5 HP
59.70	72.10	78.80	88.30	94.60	101.90
21.30	24				
7.30	9.70	11	13.80	14.20	16
85	104				
41	45	66	61	61	55
268	268				
238	238				
352	352				
268	268	269	269	266	266
238	238	250	250	250	250
346	359	365	365	365	365
191	191	191	191	191	191
191	191	191	191	191	191
120-150 @ 230	150-200 @ 230				
45 @ 370	60 @ 440				
POE Oil					
1,330	1,330	1,330	1,330	1,330	1,330
40	40	40	40	40	40
31	32.70	36.20	36.80	36.20	37
24 Pcs Per Pallet					
576 Pcs Per 20F Container					
720 Pcs Per 40F Container					

Model		Condensing Temp		Evaporating Temp										
				-31.7°C	-26.1°C	-23.3°C	-20.6°C	-17.8°C	-15.0°C	-12.2°C	-9.4°C	-6.7°C	-3.9°C	-1.1°C
				-25°F	-15°F	-10°F	-5°F	0°F	5°F	10°F	15°F	20°F	25°F	30°F
CS10K6 (1.5 HP)	Capacity (kW)	21.1°C	70°F	1.28	1.94	2.36	2.80	3.31	3.87	4.47	5.12	5.77	6.49	7.25
		26.7°C	80°F	1.09	1.70	2.07	2.48	2.94	3.45	4.00	4.58	5.18	5.84	6.52
		32.3°C	90°F	0.89	1.44	1.78	2.15	2.58	3.04	3.53	4.06	4.60	5.19	5.81
		37.8°C	100°F	0.68	1.17	1.48	1.82	2.20	2.61	3.06	3.53	4.02	4.55	5.10
		43.3°C	110°F	0.46	0.91	1.18	1.48	1.82	2.20	2.59	3.02	3.45	3.92	4.41
		48.9°C	120°F	0.23	0.63	0.87	1.14	1.44	1.77	2.13	2.50	2.87	3.29	3.71
		54.4°C	130°F		0.35	0.57	0.81	1.07	1.36	1.67	2.00	2.33	2.68	3.05
		60.0°C	140°F			0.26	0.47	0.70	0.95	1.22	1.50	1.78	2.08	2.38
	Power (kW)	21.1°C	70°F	0.79	0.93	1.00	1.06	1.12	1.18	1.23	1.27	1.30	1.31	1.31
		26.7°C	80°F	0.80	0.96	1.04	1.11	1.19	1.26	1.32	1.37	1.41	1.43	1.44
		32.3°C	90°F	0.79	0.96	1.05	1.14	1.22	1.30	1.38	1.44	1.49	1.53	1.56
		37.8°C	100°F	0.74	0.94	1.04	1.13	1.23	1.33	1.41	1.49	1.56	1.61	1.65
		43.3°C	110°F	0.67	0.88	1.00	1.11	1.22	1.33	1.43	1.52	1.60	1.67	1.73
		48.9°C	120°F	0.56	0.80	0.93	1.05	1.18	1.30	1.42	1.52	1.62	1.71	1.78
		54.4°C	130°F		0.70	0.84	0.97	1.11	1.25	1.38	1.50	1.62	1.72	1.81
		60.0°C	140°F			0.72	0.87	1.02	1.18	1.32	1.46	1.59	1.71	1.82
CS12K6 (2 HP)	Capacity (kW)	21.1°C	70°F	1.76	2.62	3.10	3.59	4.14	4.74	5.39	6.09	6.82	7.65	8.54
		26.7°C	80°F	1.37	2.19	2.64	3.10	3.62	4.17	4.78	5.44	6.13	6.90	7.75
		32.3°C	90°F	1.05	1.81	2.22	2.65	3.13	3.65	4.21	4.82	5.47	6.19	6.98
		37.8°C	100°F	0.76	1.46	1.84	2.23	2.67	3.14	3.65	4.22	4.81	5.47	6.20
		43.3°C	110°F	0.52	1.15	1.49	1.84	2.23	2.66	3.12	3.63	4.17	4.78	5.44
		48.9°C	120°F	0.30	0.85	1.15	1.46	1.80	2.18	2.59	3.04	3.52	4.06	4.66
		54.4°C	130°F		0.59	0.84	1.10	1.39	1.71	2.06	2.45	2.87	3.35	3.89
		60.0°C	140°F			0.53	0.74	0.97	1.23	1.53	1.85	2.21	2.62	3.08
	Power (kW)	21.1°C	70°F	0.98	1.20	1.28	1.35	1.41	1.46	1.49	1.51	1.52	1.51	1.50
		26.7°C	80°F	0.92	1.16	1.26	1.35	1.43	1.5	1.56	1.60	1.64	1.67	1.68
		32.3°C	90°F	0.86	1.13	1.25	1.35	1.45	1.54	1.61	1.69	1.75	1.80	1.85
		37.8°C	100°F	0.81	1.09	1.22	1.34	1.45	1.56	1.66	1.76	1.84	1.92	2.00
		43.3°C	110°F	0.75	1.05	1.19	1.32	1.45	1.57	1.69	1.80	1.91	2.02	2.12
		48.9°C	120°F	0.68	0.99	1.14	1.28	1.42	1.56	1.69	1.82	1.95	2.08	2.21
		54.4°C	130°F		0.91	1.07	1.21	1.36	1.51	1.66	1.81	1.95	2.10	2.25
		60.0°C	140°F			0.96	1.11	1.27	1.43	1.59	1.76	1.91	2.08	2.25
CS14K6 (2.5 HP)	Capacity (kW)	21.1°C	70°F	2.03	2.89	3.42	3.98	4.63	5.33	6.08	6.88	7.70	8.59	9.53
		26.7°C	80°F	1.75	2.55	3.04	3.56	4.16	4.8	5.49	6.23	6.98	7.80	8.66
		32.3°C	90°F	1.50	2.23	2.68	3.16	3.70	4.29	4.92	5.59	6.28	7.02	7.80
		37.8°C	100°F	1.24	1.91	2.31	2.75	3.24	3.77	4.34	4.95	5.56	6.23	6.92
		43.3°C	110°F	1.00	1.59	1.96	2.35	2.79	3.26	3.77	4.31	4.85	5.45	6.06
		48.9°C	120°F	0.76	1.28	1.60	1.94	2.33	2.74	3.19	3.66	4.13	4.64	5.17
		54.4°C	130°F		0.97	1.25	1.54	1.87	2.23	2.61	3.01	3.42	3.85	4.29
		60.0°C	140°F			0.89	1.13	1.41	1.71	2.02	2.35	2.68	3.03	3.39
	Power (kW)	21.1°C	70°F	1.14	1.31	1.39	1.47	1.54	1.6	1.66	1.70	1.72	1.72	1.71
		26.7°C	80°F	1.13	1.33	1.43	1.52	1.61	1.7	1.77	1.84	1.88	1.91	1.93
		32.3°C	90°F	1.11	1.34	1.45	1.56	1.67	1.77	1.87	1.95	2.02	2.08	2.11
		37.8°C	100°F	1.09	1.33	1.46	1.58	1.71	1.83	1.94	2.04	2.13	2.21	2.28
		43.3°C	110°F	1.05	1.31	1.45	1.58	1.72	1.86	1.99	2.11	2.22	2.32	2.40
		48.9°C	120°F	0.99	1.27	1.41	1.56	1.71	1.86	2.00	2.14	2.27	2.39	2.50
		54.4°C	130°F		1.20	1.36	1.51	1.67	1.83	1.99	2.15	2.29	2.43	2.55
		60.0°C	140°F			1.27	1.43	1.60	1.78	1.95	2.11	2.27	2.42	2.57

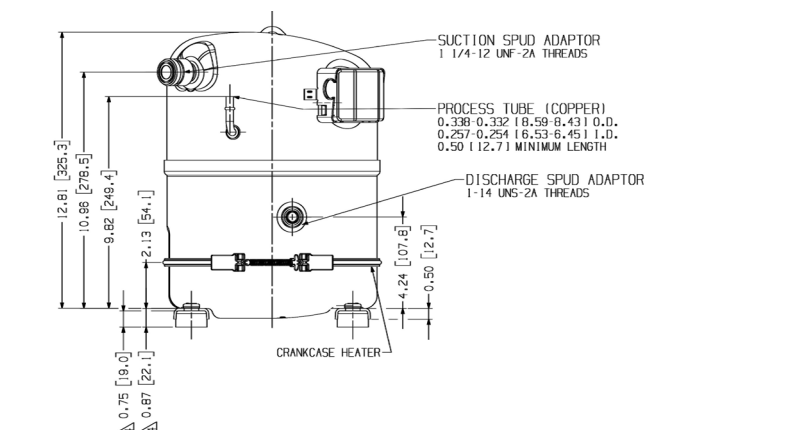
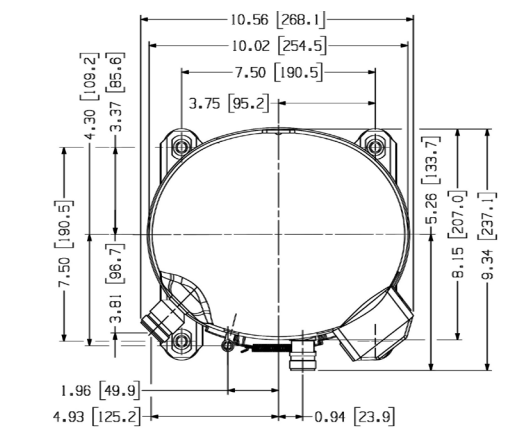
Note: Suction Gas Return 4.4°C

Model		Condensing Temp		Evaporating Temp										
				-31.7°C	-26.1°C	-23.3°C	-20.6°C	-17.8°C	-15.0°C	-12.2°C	-9.4°C	-6.7°C	-3.9°C	-1.1°C
				-25°F	-15°F	-10°F	-5°F	0°F	5°F	10°F	15°F	20°F	25°F	30°F
CS18K6 (2.75 HP)	Capacity (kW)	21.1°C	70°F	2.36	3.49	4.19	4.95	5.80	6.72	7.69	8.71	9.73	10.81	11.91
		26.7°C	80°F	2.07	3.10	3.75	4.45	5.24	6.10	7.01	7.96	8.92	9.93	10.96
		32.3°C	90°F	1.76	2.67	3.26	3.90	4.64	5.43	6.27	7.16	8.04	8.98	9.94
		37.8°C	100°F	1.45	2.23	2.75	3.33	3.99	4.71	5.47	6.28	7.09	7.95	8.83
		43.3°C	110°F	1.18	1.82	2.26	2.77	3.35	3.99	4.68	5.40	6.13	6.91	7.69
		48.9°C	120°F	0.96	1.44	1.81	2.23	2.73	3.28	3.88	4.52	5.16	5.84	6.53
		54.4°C	130°F		1.14	1.42	1.76	2.17	2.64	3.14	3.68	4.23	4.81	5.40
		60.0°C	140°F			1.13	1.38	1.69	2.05	2.46	2.90	3.34	3.81	4.30
	Power (kW)	21.1°C	70°F	1.28	1.51	1.63	1.75	1.85	1.94	2.01	2.05	2.07	2.04	1.97
		26.7°C	80°F	1.32	1.57	1.71	1.84	1.97	2.08	2.18	2.26	2.30	2.31	2.28
		32.3°C	90°F	1.32	1.59	1.74	1.89	2.03	2.17	2.30	2.40	2.47	2.52	2.53
		37.8°C	100°F	1.29	1.57	1.74	1.90	2.06	2.22	2.37	2.50	2.60	2.68	2.73
		43.3°C	110°F	1.23	1.53	1.70	1.88	2.06	2.24	2.41	2.56	2.69	2.80	2.88
		48.9°C	120°F	1.17	1.47	1.65	1.84	2.03	2.23	2.42	2.59	2.75	2.89	3.00
		54.4°C	130°F		1.40	1.59	1.78	1.99	2.20	2.40	2.60	2.78	2.95	3.09
		60.0°C	140°F			1.52	1.72	1.93	2.16	2.38	2.60	2.80	2.99	3.16
CS20K6 (3 HP)	Capacity (kW)	21.1°C	70°F	2.88	4.26	5.03	5.83	6.76	7.80	8.97	10.28	11.7	13.35	15.21
		26.7°C	80°F	2.48	3.76	4.45	5.18	6.01	6.94	7.98	9.16	10.44	11.94	13.63
		32.3°C	90°F	2.05	3.23	3.86	4.51	5.26	6.09	7.02	8.07	9.22	10.57	12.10
		37.8°C	100°F	1.57	2.67	3.24	3.83	4.49	5.22	6.05	6.98	8.00	9.21	10.58
		43.3°C	110°F	1.07	2.11	2.63	3.16	3.74	4.39	5.12	5.94	6.84	7.91	9.14
		48.9°C	120°F	0.55	1.54	2.02	2.49	3.01	3.57	4.20	4.92	5.71	6.65	7.73
		54.4°C	130°F		1.00	1.44	1.86	2.32	2.81	3.36	3.98	4.67	5.49	6.43
		60.0°C	140°F			0.89	1.27	1.67	2.10	2.56	3.09	3.68	4.38	5.20
	Power (kW)	21.1°C	70°F	1.5	1.79	1.91	2.02	2.13	2.23	2.34	2.45	2.57	2.71	2.86
		26.7°C	80°F	1.53	1.85	1.99	2.11	2.23	2.35	2.47	2.59	2.72	2.87	3.03
		32.3°C	90°F	1.50	1.86	2.02	2.16	2.30	2.43	2.57	2.7	2.85	3.00	3.18
		37.8°C	100°F	1.42	1.83	2.00	2.16	2.32	2.48	2.63	2.79	2.95	3.12	3.31
		43.3°C	110°F	1.27	1.74	1.94	2.13	2.31	2.49	2.66	2.84	3.02	3.22	3.43
		48.9°C	120°F	1.07	1.59	1.83	2.04	2.25	2.46	2.66	2.87	3.07	3.29	3.53
		54.4°C	130°F		1.40	1.67	1.91	2.15	2.39	2.62	2.86	3.09	3.34	3.60
		60.0°C	140°F			1.45	1.73	2.01	2.28	2.55	2.82	3.08	3.36	3.66
CS24K6 (3.25 HP)	Capacity (kW)	21.1°C	70°F	3.26	4.64	5.47	6.39	7.40	8.50	9.69	10.95	12.30	13.73	15.24
		26.7°C	80°F	2.82	4.10	4.87	5.73	6.68	7.7	8.81	10.00	11.26	12.6	14.02
		32.3°C	90°F	2.36	3.52	4.23	5.02	5.89	6.84	7.86	8.96	10.13	11.38	12.69
		37.8°C	100°F	1.89	2.93	3.57	4.28	5.07	5.93	6.87	7.87	8.95	10.09	11.30
		43.3°C	110°F	1.47	2.36	2.92	3.55	4.25	5.03	5.87	6.77	7.74	8.77	9.87
		48.9°C	120°F	1.11	1.85	2.33	2.87	3.48	4.15	4.89	5.69	6.55	7.46	8.44
		54.4°C	130°F		1.43	1.81	2.26	2.77	3.34	3.97	4.66	5.40	6.19	7.04
		60.0°C	140°F			1.42	1.77	2.17	2.63	3.14	3.71	4.33	4.99	5.70
	Power (kW)	21.1°C	70°F	1.69	2.09	2.27	2.43	2.58	2.72	2.84	2.96	3.06	3.15	3.23
		26.7°C	80°F	1.69	2.09	2.27	2.44	2.59	2.73	2.86	2.98	3.09	3.18	3.25
		32.3°C	90°F	1.70	2.11	2.30	2.47	2.64	2.78	2.92	3.04	3.15	3.24	3.31
		37.8°C	100°F	1.73	2.16	2.35	2.54	2.70	2.86	3.00	3.12	3.23	3.33	3.40
		43.3°C	110°F	1.76	2.22	2.42	2.61	2.79	2.95	3.09	3.22	3.33	3.43	3.51
		48.9°C	120°F	1.80	2.28	2.49	2.69	2.88	3.04	3.19	3.33	3.45	3.55	3.63
		54.4°C	130°F		2.34	2.56	2.77	2.96	3.14	3.29	3.43	3.56	3.66	3.75
		60.0°C	140°F			2.61	2.83	3.03	3.22	3.38	3.53	3.66	3.77	3.86

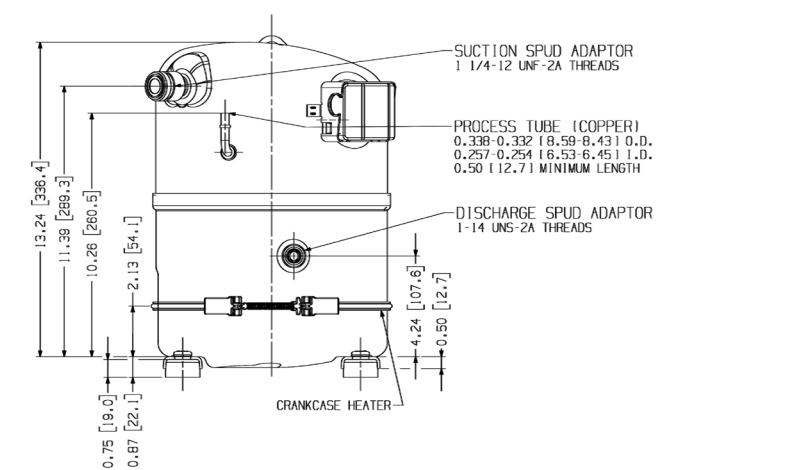
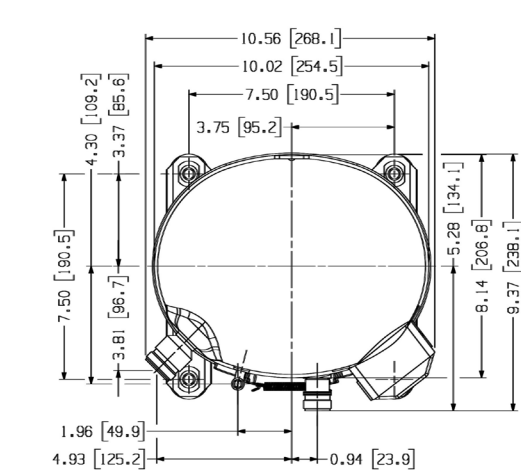
Model		Condensing Temp		Evaporating Temp										
				-31.7°C	-26.1°C	-23.3°C	-20.6°C	-17.8°C	-15.0°C	-12.2°C	-9.4°C	-6.7°C	-3.9°C	-1.1°C
				-25°F	-15°F	-10°F	-5°F	0°F	5°F	10°F	15°F	20°F	25°F	30°F
CS27K6 (3.5 HP)	Capacity (kW)	21.1°C	70°F	2.95	4.49	5.38	6.31	7.37	8.53	9.79	11.15	12.58	14.18	15.90
		26.7°C	80°F	2.63	4.01	4.81	5.66	6.62	7.67	8.82	10.07	11.37	12.84	14.43
		32.3°C	90°F	2.33	3.56	4.27	5.03	5.89	6.84	7.88	9.02	10.21	11.55	13.01
		37.8°C	100°F	2.03	3.10	3.73	4.4	5.17	6.01	6.94	7.96	9.03	10.24	11.57
		43.3°C	110°F	1.74	2.66	3.21	3.79	4.46	5.20	6.02	6.92	7.88	8.97	10.16
		48.9°C	120°F	1.44	2.21	2.67	3.16	3.73	4.37	5.08	5.87	6.71	7.67	8.73
		54.4°C	130°F		1.76	2.13	2.54	3.01	3.55	4.15	4.83	5.55	6.39	7.31
		60.0°C	140°F			1.57	1.89	2.27	2.70	3.20	3.76	4.37	5.07	5.87
	Power (kW)	21.1°C	70°F	1.58	1.96	2.14	2.30	2.46	2.60	2.73	2.84	2.94	3.02	3.09
		26.7°C	80°F	1.62	2.02	2.21	2.39	2.56	2.72	2.87	3.00	3.12	3.23	3.33
		32.3°C	90°F	1.65	2.07	2.28	2.46	2.65	2.83	3.00	3.16	3.3	3.44	3.57
		37.8°C	100°F	1.66	2.10	2.32	2.52	2.73	2.93	3.12	3.3	3.47	3.64	3.79
		43.3°C	110°F	1.63	2.09	2.32	2.55	2.77	2.99	3.21	3.41	3.61	3.8	3.99
		48.9°C	120°F	1.55	2.04	2.29	2.53	2.77	3.01	3.25	3.49	3.71	3.94	4.15
54.4°C		130°F		1.93	2.19	2.45	2.72	2.98	3.24	3.51	3.76	4.01	4.27	
60.0°C		140°F			2.03	2.30	2.59	2.88	3.17	3.46	3.74	4.03	4.32	
CS30K6 (4 HP)	Capacity (kW)	21.1°C	70°F	3.81	5.54	6.49	7.53	8.65	9.86	11.18	12.61	14.16	15.85	17.67
		26.7°C	80°F	3.48	5.11	6.01	6.99	8.06	9.21	10.47	11.85	13.34	14.96	16.72
		32.3°C	90°F	3.02	4.53	5.37	6.28	7.28	8.36	9.55	10.85	12.27	13.82	15.5
		37.8°C	100°F	2.50	3.85	4.61	5.45	6.36	7.37	8.47	9.69	11.02	12.47	14.07
		43.3°C	110°F	1.97	3.14	3.81	4.56	5.38	6.29	7.29	8.41	9.64	10.99	12.48
		48.9°C	120°F	1.49	2.46	3.02	3.66	4.37	5.17	6.07	7.07	8.19	9.43	10.80
		54.4°C	130°F		1.85	2.30	2.82	3.41	4.09	4.86	5.74	6.73	7.84	9.08
		60.0°C	140°F			1.71	2.09	2.55	3.09	3.73	4.46	5.31	6.28	7.38
	Power (kW)	21.1°C	70°F	2.12	2.62	2.85	3.06	3.25	3.43	3.59	3.74	3.87	3.98	4.08
		26.7°C	80°F	2.11	2.62	2.86	3.07	3.28	3.46	3.62	3.77	3.90	4.02	4.11
		32.3°C	90°F	2.13	2.66	2.90	3.13	3.34	3.52	3.69	3.85	3.98	4.10	4.19
		37.8°C	100°F	2.17	2.73	2.98	3.21	3.42	3.62	3.79	3.95	4.09	4.20	4.30
		43.3°C	110°F	2.22	2.80	3.06	3.31	3.53	3.73	3.91	4.07	4.22	4.34	4.44
		48.9°C	120°F	2.28	2.88	3.15	3.41	3.64	3.85	4.04	4.21	4.35	4.48	4.58
54.4°C		130°F		2.95	3.24	3.50	3.74	3.96	4.16	4.34	4.49	4.62	4.73	
60.0°C		140°F			3.31	3.58	3.83	4.06	4.27	4.46	4.62	4.76	4.87	
CS33K6 (4.5 HP)	Capacity (kW)	21.1°C	70°F	4.26	6.04	7.22	8.52	9.99	11.57	13.24	14.95	16.62	18.36	20.06
		26.7°C	80°F	3.81	5.37	6.44	7.63	8.99	10.45	11.99	13.59	15.15	16.76	18.34
		32.3°C	90°F	3.39	4.72	5.68	6.75	7.99	9.34	10.76	12.23	13.67	15.16	16.61
		37.8°C	100°F	3.02	4.10	4.93	5.88	7.00	8.21	9.50	10.84	12.15	13.50	14.82
		43.3°C	110°F	2.71	3.54	4.24	5.07	6.05	7.13	8.29	9.49	10.67	11.88	13.05
		48.9°C	120°F	2.47	3.03	3.60	4.29	5.13	6.07	7.08	8.14	9.17	10.23	11.26
		54.4°C	130°F		2.61	3.04	3.59	4.28	5.08	5.94	6.85	7.74	8.65	9.52
		60.0°C	140°F			2.56	2.96	3.50	4.14	4.85	5.60	6.33	7.08	7.79
	Power (kW)	21.1°C	70°F	2.09	2.45	2.67	2.91	3.15	3.38	3.58	3.75	3.86	3.91	3.88
		26.7°C	80°F	2.14	2.51	2.75	2.99	3.25	3.50	3.73	3.92	4.06	4.15	4.16
		32.3°C	90°F	2.19	2.57	2.82	3.08	3.35	3.62	3.88	4.10	4.27	4.38	4.43
		37.8°C	100°F	2.23	2.62	2.88	3.15	3.45	3.74	4.02	4.27	4.47	4.62	4.70
		43.3°C	110°F	2.24	2.65	2.92	3.21	3.53	3.84	4.14	4.42	4.65	4.84	4.96
		48.9°C	120°F	2.23	2.66	2.94	3.25	3.58	3.91	4.24	4.55	4.81	5.03	5.20
54.4°C		130°F		2.63	2.92	3.24	3.60	3.96	4.31	4.65	4.94	5.20	5.40	
60.0°C		140°F			2.86	3.20	3.57	3.95	4.34	4.70	5.03	5.33	5.57	

Note: Suction Gas Return 4.4°C

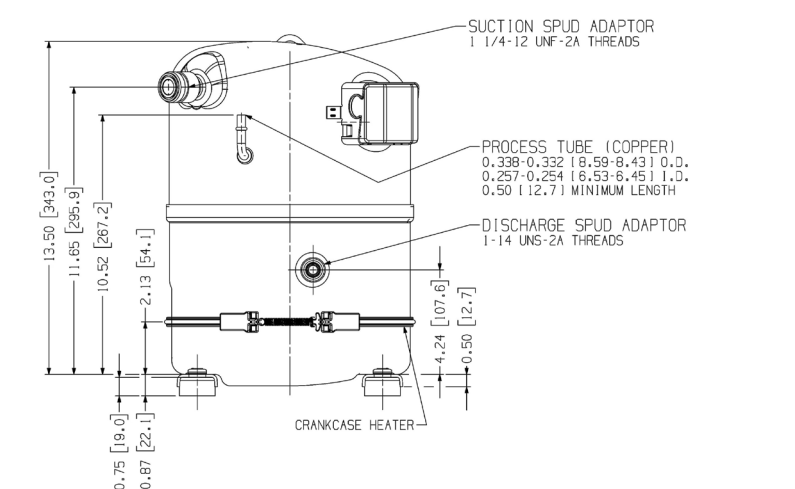
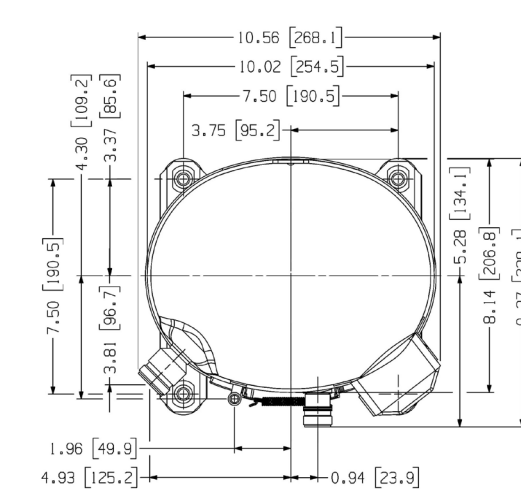
CS10, CS12, CS14 TF5



CS18 TF5



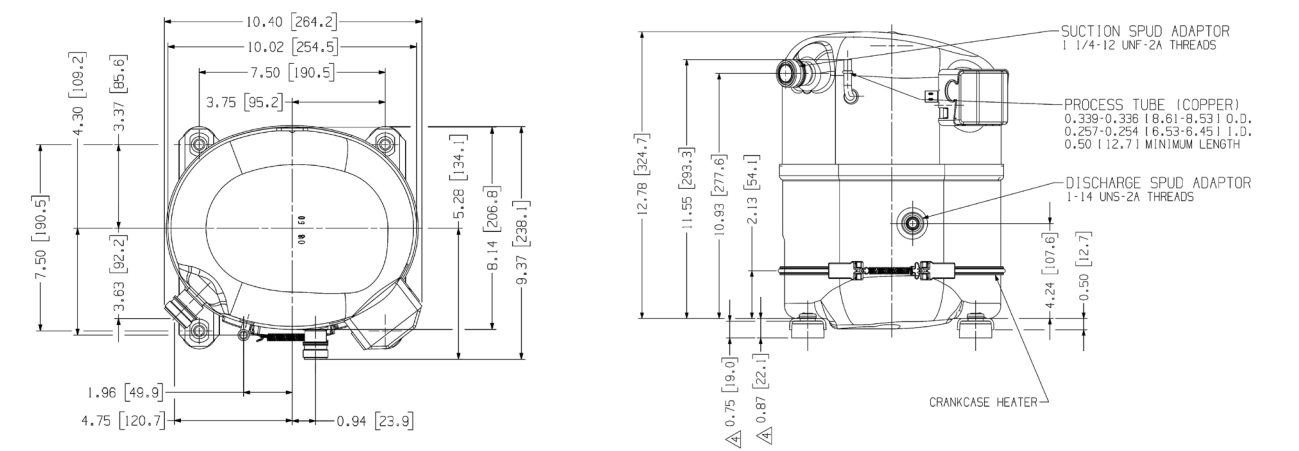
CS20 TF5



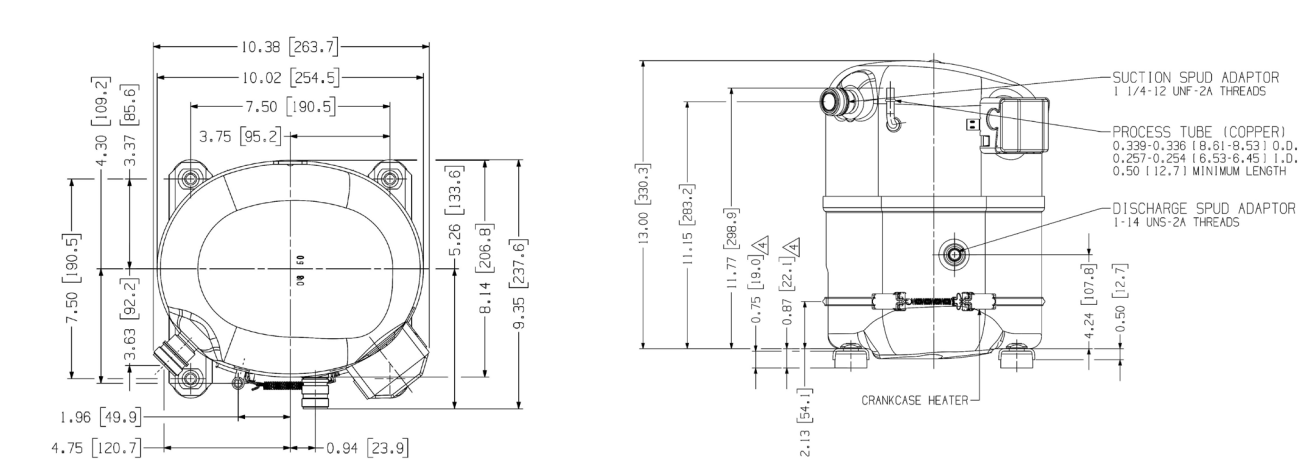
CSK6 Dimension Drawing – PFV

60Hz

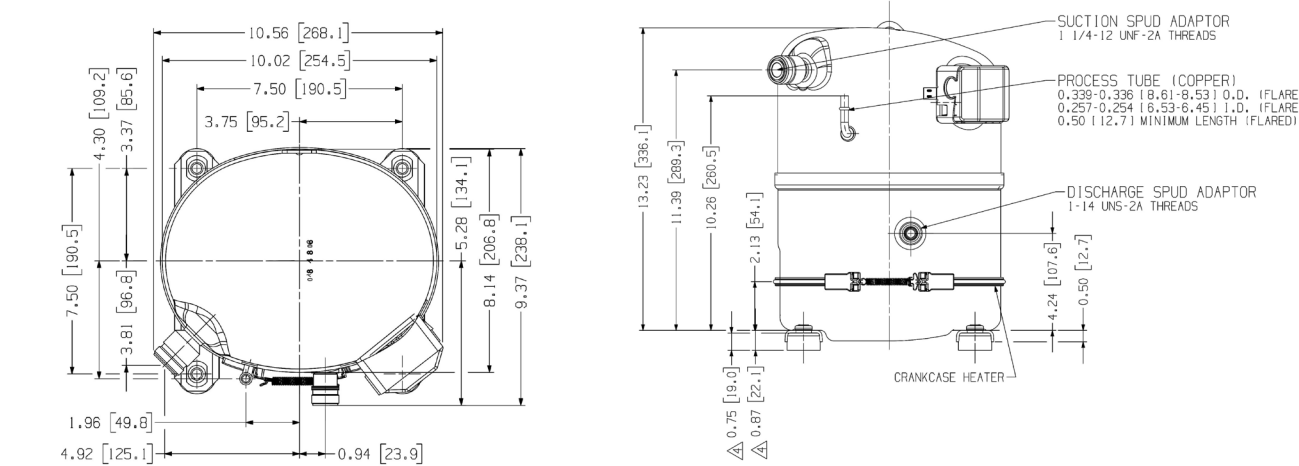
CS10, CS12 PFV



CS14 PFV



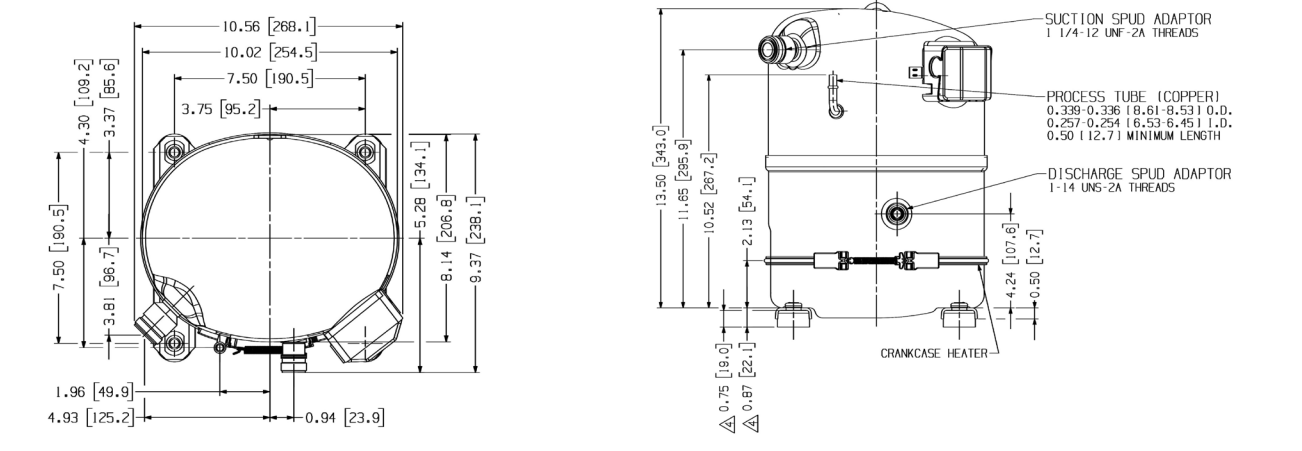
CS18 PFV



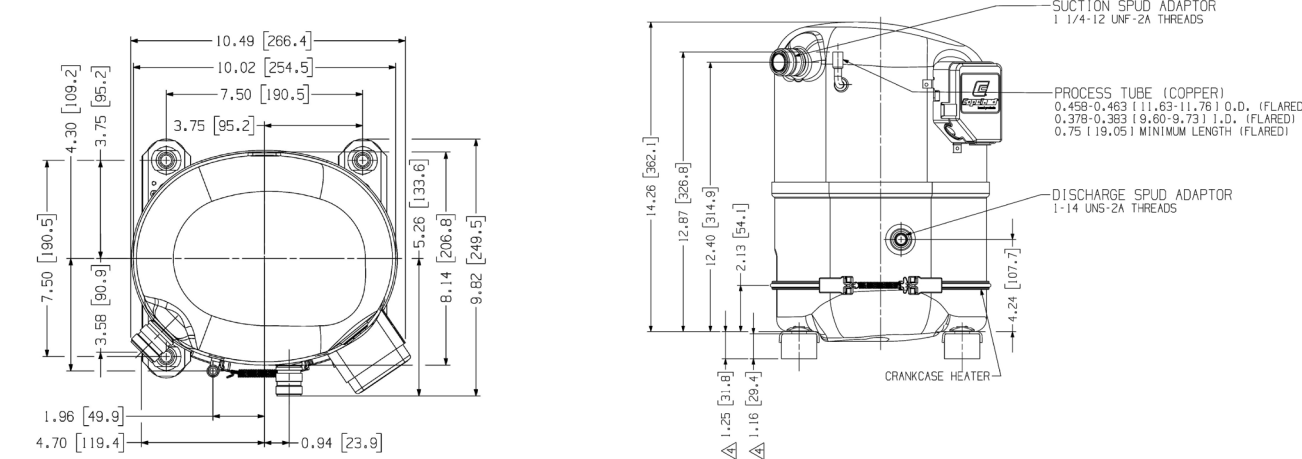
CSK6 Dimension Drawing – TFD

60Hz

CS20 PFV



CS24, CS27, CS30, CS33 TFD



CSK6 Technical Data (1 of 2)

60 Hz Reference

Compressor Model			CS10K6	CS13K6
Horsepower		HP	1.5 HP	2 HP
Displacement		cm³/rev	40.80	47.40
Maximum Continuous Current (MCC)	PFV	Amps	19	15.60
	TF5		13	10.50
	TFD			
Locked Rotor Ampere	PFV	Amps	56	61
	TF5		50	54
	TFD			
Outline Dimension - PFV		Length (mm)	264	264
		Width (mm)	238	238
		Height (mm)	328	328
Outline Dimension – TF5		Length (mm)	268	268
		Width (mm)	238	238
		Height (mm)	328	328
Outline Dimension – TFD		Length (mm)		
		Width (mm)		
		Height (mm)		
Mounting Dimension		Length (mm)	191	191
		Width (mm)	191	191
Start Capacitor		μF @ V AC	189-227 @ 330	189-227 @ 330
Run Capacitor		μF @ V AC	36 @440	36 @ 440
Oil Type		KQE - POE Oil		
Oil Charge		cm³	1,330	1,330
Crankcase Heater Power		Watts	40	40
Net Weight		Kg	29.80	33.50
Compressor Per Pallet		Pcs	24 Pcs Per Pallet	
Compressor Per 20 Feet Container		Pcs	576 Pcs Per 20 F Container	
Compressor Per 20 Feet Container		Pcs	720 Pcs Per 40F Container	

CSK6 Technical Data (2 of 2)

60Hz

CS14K6	CS18K6	CS20K6	CS24K6	CS27K6	CS30KQ	CS33KQ
2.5 HP	2.75 HP	3 HP	3.25 HP	3.5 HP	4 HP	4.5 HP
51.50	66.60	72.10	78.80	88.30	94.60	101.90
21.50	20.50	24				
14.30	17	22		26		28
		10	11	13.80	14.20	16
77	80	99				
53	70	73		135		125
		47	51	60	60	50
264	268	268				
238	238	238				
333	339	346				
268	268	268		266		266
238	238	238		248		248
328	339	346		365		365
		268	269	269	266	266
		238	250	250	250	250
		346	365	365	365	365
191	191	191	191	191	191	191
191	191	191	191	191	191	191
189-227 @ 330	189-227 @ 330	189-227 @ 330				
36 @ 440	36 @ 440	45 @ 440				
KQE - POE Oil						
1,330	1,330	1,330	1,330	1,330	1,330	1,330
40	40	40	40	40	40	40
32.50	34.50	34.90	36.20	36.80	36.20	37
24 Pcs Per Pallet						
576 Pcs Per 20F Container						
720 Pcs Per 40F Container						

CSK7 Performance Data (1 of 3)

R404A 50Hz

Model		Condensing Temp		Evaporating Temp								
				-31.7°C	-26.1°C	-23.3°C	-12.2°C	-6.7°C	-1.1°C	1.7°C	5.0°C	7.3°C
				-25°F	-15°F	-10°F	10°F	20°F	30°F	35°F	40°F	45°F
CS10K7 (1.5 HP)	Capacity (kW)	21.1°C	70°F	1.28	1.8	2.14	4.03	5.29	6.78	8.59	9.71	10.82
		26.7°C	80°F	1.11	1.58	1.88	3.58	4.73	6.08	7.80	8.84	9.88
		32.3°C	90°F	0.89	1.33	1.61	3.12	4.15	5.36	7.02	7.98	8.93
		37.8°C	100°F	0.68	1.09	1.33	2.66	3.57	4.65	6.24	6.82	7.40
		43.3°C	110°F	0.47	0.83	1.06	2.22	3.02	3.96	5.29	5.95	6.60
		48.9°C	120°F	0.28	0.59	0.81	1.81	2.49	3.30	4.65	5.24	5.82
		54.4°C	130°F		0.39	0.56	1.44	2.01	2.70	4.32	4.84	5.35
		60.0°C	140°F			0.37	1.14	1.6	2.16	3.74	4.33	4.93
	Power (kW)	21.1°C	70°F	0.68	0.83	0.89	1.08	1.15	1.21	1.37	1.42	1.45
		26.7°C	80°F	0.69	0.85	0.91	1.12	1.20	1.27	1.43	1.49	1.53
		32.3°C	90°F	0.7	0.87	0.94	1.17	1.26	1.34	1.48	1.53	1.58
		37.8°C	100°F	0.71	0.88	0.96	1.21	1.31	1.41	1.54	1.58	1.89
		43.3°C	110°F	0.71	0.89	0.97	1.25	1.37	1.48	1.66	1.72	1.77
		48.9°C	120°F	0.71	0.89	0.98	1.28	1.42	1.54	1.77	1.84	1.91
		54.4°C	130°F		0.89	0.98	1.30	1.45	1.60	1.84	1.93	2.02
		60.0°C	140°F			0.98	1.31	1.48	1.64	1.98	2.09	2.20
CS13K7 (2 HP)	Capacity (kW)	21.1°C	70°F	1.69	2.48	2.94	5.24	6.69	8.34	10.58	11.95	13.32
		26.7°C	80°F	1.40	2.13	2.55	4.67	6.01	7.52	9.66	10.95	12.24
		32.3°C	90°F	1.13	1.79	2.18	4.12	5.33	6.71	8.79	9.99	11.19
		37.8°C	100°F	0.89	1.49	1.84	3.58	4.67	5.91	7.94	8.67	9.41
		43.3°C	110°F	0.67	1.21	1.51	3.06	4.02	5.13	6.85	7.70	8.55
		48.9°C	120°F	0.49	0.95	1.22	2.56	3.40	4.36	6.13	6.90	7.67
		54.4°C	130°F		0.73	0.96	2.08	2.79	3.61	5.77	6.46	7.15
		60.0°C	140°F			0.37	0.49	0.55	0.62	0.74	0.78	0.82
	Power (kW)	21.1°C	70°F	0.87	1.06	1.14	1.38	1.47	1.54	1.75	1.82	1.85
		26.7°C	80°F	0.88	1.08	1.17	1.44	1.54	1.63	1.83	1.91	1.96
		32.3°C	90°F	0.90	1.11	1.20	1.49	1.61	1.71	1.90	1.96	2.02
		37.8°C	100°F	0.91	1.13	1.22	1.55	1.68	1.8	1.98	2.02	2.11
		43.3°C	110°F	0.90	1.14	1.24	1.60	1.75	1.89	2.13	2.20	2.27
		48.9°C	120°F	0.91	1.14	1.25	1.64	1.82	1.97	2.26	2.35	2.44
		54.4°C	130°F		1.14	1.25	1.67	1.86	2.05	2.36	2.47	2.59
		60.0°C	140°F			1.14	1.25	1.67	1.86	2.05	2.36	2.47
CS17K6 (2.5 HP)	Capacity (kW)	21.1°C	70°F	2.10	3.02	3.56	6.32	8.13	10.26	13.00	14.69	16.37
		26.7°C	80°F	1.77	2.60	3.09	5.63	7.30	9.27	11.91	13.49	15.08
		32.3°C	90°F	1.46	2.21	2.65	4.95	6.48	8.30	10.86	12.35	13.83
		37.8°C	100°F	1.17	1.83	2.22	4.29	5.68	7.34	9.84	10.76	11.67
		43.3°C	110°F	0.91	1.48	1.82	3.64	4.88	6.39	8.53	9.59	10.65
		48.9°C	120°F	0.67	1.15	1.44	3.01	4.11	5.45	7.67	8.63	9.59
		54.4°C	130°F		0.84	1.08	2.40	3.35	4.52	7.24	8.11	8.97
		60.0°C	140°F			0.74	1.81	2.60	3.62	6.27	7.27	8.27
	Power (kW)	21.1°C	70°F	1.03	1.25	1.35	1.64	1.75	1.84	2.08	2.16	2.20
		26.7°C	80°F	1.05	1.28	1.38	1.7	1.83	1.93	2.17	2.27	2.32
		32.3°C	90°F	1.06	1.31	1.42	1.77	1.91	2.03	2.25	2.32	2.39
		37.8°C	100°F	1.07	1.34	1.45	1.84	2.00	2.14	2.34	2.40	2.51
		43.3°C	110°F	1.07	1.35	1.48	1.90	2.08	2.24	2.53	2.61	2.69
		48.9°C	120°F	1.07	1.35	1.48	1.95	2.15	2.34	2.68	2.79	2.90
		54.4°C	130°F		1.35	1.48	1.98	2.21	2.43	2.80	2.93	3.07
		60.0°C	140°F			1.49	1.99	2.25	2.49	3.00	3.17	3.34

Note: Suction Gas Return 4.4°C

CSK7 Performance Data (2 of 3)

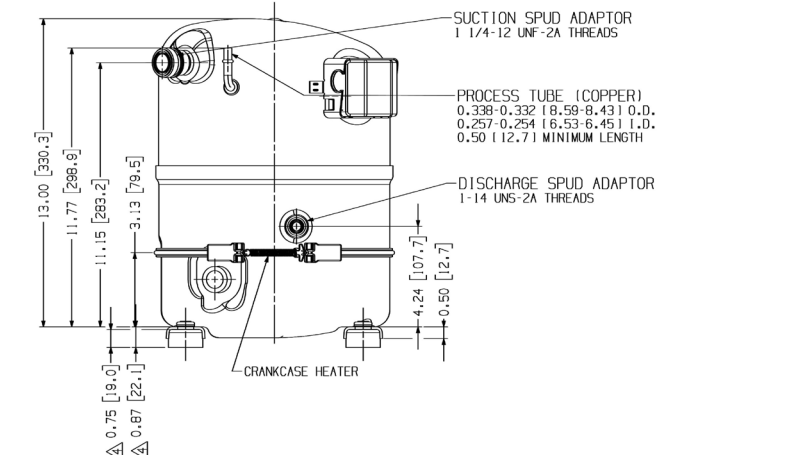
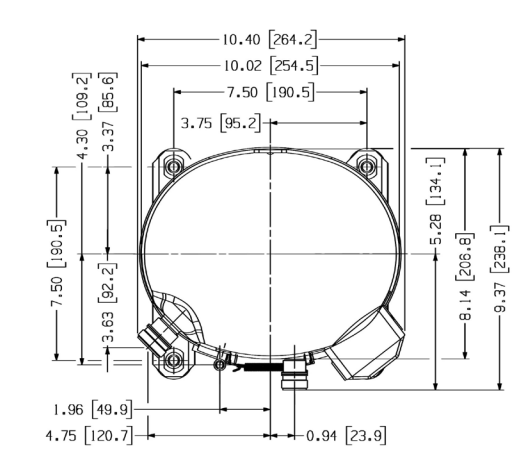
R404A 50Hz

Model		Condensing Temp		Evaporating Temp								
				-31.7°C	-26.1°C	-23.3°C	-12.2°C	-6.7°C	-1.1°C	1.7°C	5.0°C	7.3°C
				-25°F	-15°F	-10°F	10°F	20°F	30°F	35°F	40°F	45°F
CS20K7 (3 HP)	Capacity (kW)	21.1°C	70°F	2.48	3.54	4.15	7.40	9.71	12.61	16.57	18.72	2.09
		26.7°C	80°F	2.16	3.13	3.67	6.59	8.67	11.3	15.11	17.11	19.12
		32.3°C	90°F	1.81	2.69	3.18	5.77	7.64	10.02	13.69	15.56	17.43
		37.8°C	100°F	1.44	2.24	2.68	4.97	6.62	8.76	12.30	13.44	14.59
		43.3°C	110°F	1.06	1.80	2.19	4.19	5.65	7.55	10.56	11.87	13.18
		48.9°C	120°F	0.69	1.36	1.71	3.45	4.72	6.40	9.39	10.57	11.75
		54.4°C	130°F		0.96	1.27	2.76	3.85	5.31	8.78	9.82	10.87
		60.0°C	140°F			0.87	2.13	3.05	4.31	7.52	8.72	9.92
	Power (kW)	21.1°C	70°F	1.21	1.47	1.58	1.92	2.04	2.14	2.43	2.53	2.57
		26.7°C	80°F	1.20	1.48	1.60	1.98	2.12	2.24	2.55	2.66	2.73
		32.3°C	90°F	1.22	1.51	1.64	2.05	2.22	2.37	2.64	2.72	2.81
		37.8°C	100°F	1.24	1.54	1.68	2.13	2.32	2.50	2.74	2.81	2.93
		43.3°C	110°F	1.26	1.58	1.72	2.21	2.43	2.63	2.94	3.04	3.13
		48.9°C	120°F	1.27	1.60	1.75	2.28	2.52	2.75	3.12	3.25	3.37
		54.4°C	130°F		1.61	1.76	2.33	2.59	2.85	3.26	3.42	3.58
		60.0°C	140°F			1.77	2.35	2.63	2.92	3.35	3.54	3.73
CS24K7 (3.5 HP)	Capacity (kW)	21.1°C	70°F	3.01	4.29	5.05	8.94	11.36	14.07	17.73	20.03	22.32
		26.7°C	80°F	2.61	3.79	4.50	8.13	10.40	12.94	16.16	18.31	20.46
		32.3°C	90°F	2.18	3.25	3.90	7.26	9.35	11.72	14.65	16.65	18.65
		37.8°C	100°F	1.75	2.70	3.29	6.34	8.26	10.43	13.16	14.39	15.61
		43.3°C	110°F	1.36	2.18	2.70	5.42	7.15	9.11	11.30	12.70	14.10
		48.9°C	120°F	1.03	1.71	2.15	4.51	6.21	8.35	10.05	11.31	12.57
		54.4°C	130°F		1.32	1.68	3.67	5.34	7.54	9.39	10.51	11.63
		60.0°C	140°F			1.31	2.90	4.28	6.11	8.04	9.33	10.62
	Power (kW)	21.1°C	70°F	1.55	1.89	2.05	2.57	2.77	2.92	3.00	3.09	3.18
		26.7°C	80°F	1.53	1.89	2.05	2.59	2.79	2.94	3.03	3.12	3.21
		32.3°C	90°F	1.54	1.91	2.08	2.64	2.85	3.00	3.07	3.16	3.27
		37.8°C	100°F	1.61	1.95	2.13	2.71	2.92	3.08	3.16	3.24	3.32
		43.3°C	110°F	1.64	2.06	2.25	2.88	3.10	3.27	3.29	3.38	3.45
		48.9°C	120°F	1.68	2.12	2.32	2.97	3.21	3.38	3.43	3.57	3.71
		54.4°C	130°F		2.17	2.38	3.06	3.31	3.49	3.59	3.76	3.93
		60.0°C	140°F			2.57	3.32	3.59	3.79	3.89	3.99	4.10
CS27K7 (4 HP)	Capacity (kW)	21.1°C	70°F	3.63	5.17	6.09	10.79	13.70	16.97	18.97	21.42	23.88
		26.7°C	80°F	3.14	4.57	5.43	9.81	12.54	15.61	17.29	19.59	21.89
		32.3°C	90°F	2.63	3.92	4.71	8.75	11.28	14.13	15.67	17.81	19.95
		37.8°C	100°F	2.11	3.26	3.97	7.65	9.96	12.58	14.08	15.39	16.70
		43.3°C	110°F	1.64	2.63	3.25	6.53	8.62	10.99	12.09	13.59	15.09
		48.9°C	120°F	1.24	2.06	2.59	5.45	7.29	9.40	10.75	12.10	13.45
		54.4°C	130°F		1.59	2.02	4.42	6.01	7.84	10.04	11.24	12.44
		60.0°C	140°F			1.58	3.50	4.82	6.35	8.60	9.98	11.36
	Power (kW)	21.1°C	70°F	1.77	2.15	2.32	2.91	3.10	3.20	3.25	3.38	3.44
		26.7°C	80°F	1.75	2.17	2.36	2.97	3.19	3.36	3.41	3.57	3.65
		32.3°C	90°F	1.75	2.20	2.40	3.03	3.26	3.43	3.60	3.72	3.83
		37.8°C	100°F	1.82	2.25	2.46	3.13	3.36	3.53	3.74	3.83	4.00
		43.3°C	110°F	1.84	2.36	2.59	3.32	3.58	3.76	3.94	4.07	4.19
		48.9°C	120°F	1.84	2.39	2.64	3.43	3.70	3.89	4.18	4.35	4.52
		54.4°C	130°F		2.39	2.66	3.51	3.80	4.01	4.37	4.58	0.48
		60.0°C	140°F			2.66	3.55	3.87	4.10	4.48	4.74	4.99

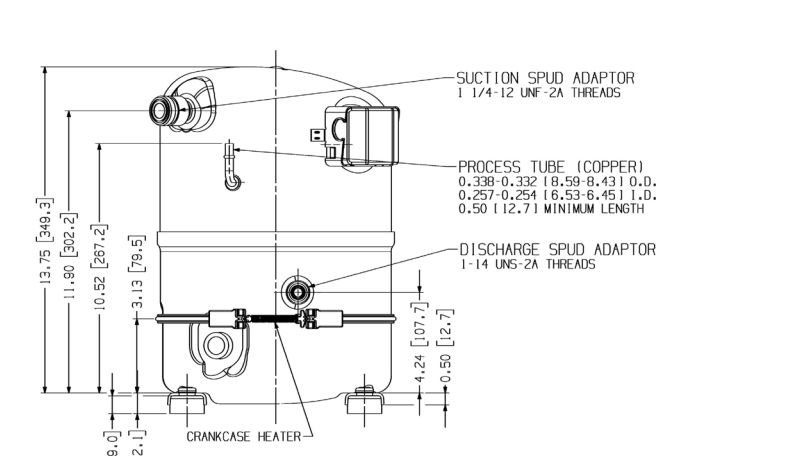
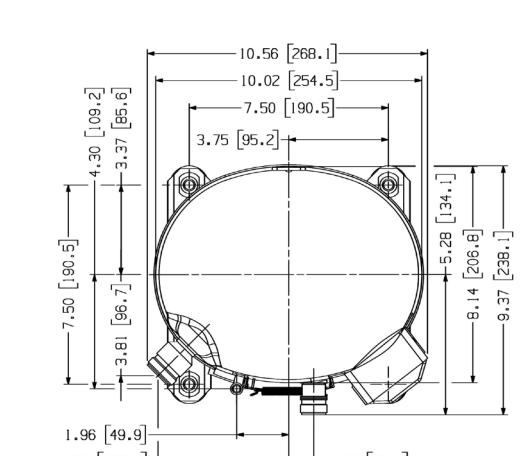
Model		Condensing Temp		Evaporating Temp								
				-31.7°C	-26.1°C	-23.3°C	-12.2°C	-6.7°C	-1.1°C	1.7°C	5.0°C	7.3°C
				-25°F	-15°F	-10°F	10°F	20°F	30°F	35°F	40°F	45°F
CS30K7 (4.5 HP)	Capacity (kW)	21.1°C	70°F	3.92	5.70	6.68	11.51	14.58	18.19	21.92	24.76	27.6
		26.7°C	80°F	3.58	5.26	6.19	10.78	13.73	17.21	19.99	22.64	25.30
		32.3°C	90°F	3.11	4.66	5.52	9.83	12.63	15.95	18.11	20.58	23.05
		37.8°C	100°F	2.58	3.96	4.75	8.72	11.34	14.48	16.28	17.79	19.30
		43.3°C	110°F	2.03	3.24	3.93	7.51	9.92	12.85	13.98	15.71	17.44
		48.9°C	120°F	1.53	2.53	3.11	6.25	8.43	11.11	12.43	13.99	15.55
		54.4°C	130°F		1.91	2.37	5.00	6.92	9.34	11.61	12.99	14.38
		60.0°C	140°F			1.76	3.84	5.47	7.59	9.95	11.54	13.13
	Power (kW)	21.1°C	70°F	1.95	2.39	2.60	3.29	3.54	3.70	3.68	3.82	3.89
		26.7°C	80°F	1.98	2.45	2.66	3.36	3.61	3.80	3.86	4.03	4.13
		32.3°C	90°F	1.98	2.49	2.71	3.43	3.69	3.87	4.07	4.20	4.33
		37.8°C	100°F	2.06	2.54	2.78	3.54	3.80	3.99	4.23	4.33	4.53
		43.3°C	110°F	2.08	2.67	2.93	3.76	4.05	4.25	4.46	4.60	4.74
		48.9°C	120°F	2.08	2.70	2.98	3.87	4.18	4.40	4.73	4.92	5.11
		54.4°C	130°F		2.71	3.00	3.97	4.30	4.54	4.94	5.18	5.41
		60.0°C	140°F			3.01	4.01	4.38	4.64	5.07	5.36	5.64
CS33K7 (5 HP)	Capacity (kW)	21.1°C	70°F	4.20	6.10	7.15	12.31	15.60	19.46	23.46	26.50	29.54
		26.7°C	80°F	3.83	5.62	6.62	11.54	14.69	18.42	21.38	24.23	27.07
		32.3°C	90°F	3.33	4.98	5.91	10.52	13.51	17.07	19.38	22.02	24.67
		37.8°C	100°F	2.76	4.24	5.08	9.33	12.13	15.49	17.42	19.03	20.65
		43.3°C	110°F	2.17	3.46	4.20	8.03	10.61	13.75	14.95	16.81	18.66
		48.9°C	120°F	1.64	2.71	3.33	6.69	9.02	11.89	13.3	14.97	16.64
		54.4°C	130°F		2.04	2.54	5.35	7.41	10.00	12.42	13.90	15.38
		60.0°C	140°F			1.88	4.10	5.85	8.13	10.64	12.34	14.04
	Power (kW)	21.1°C	70°F	2.22	2.68	2.89	3.66	3.89	3.99	4.08	4.24	4.32
		26.7°C	80°F	2.19	2.72	2.96	3.72	4.00	4.21	4.28	4.48	4.59
		32.3°C	90°F	2.20	2.76	3.01	3.81	4.09	4.30	4.52	4.66	4.81
		37.8°C	100°F	2.29	2.82	3.08	3.93	4.22	4.43	4.70	4.81	5.02
		43.3°C	110°F	2.31	2.96	3.25	4.17	4.49	4.72	4.95	5.11	5.27
		48.9°C	120°F	2.31	3.00	3.31	4.30	4.64	4.89	5.25	5.46	5.67
		54.4°C	130°F		3.00	3.33	4.40	4.77	5.04	5.48	5.74	6.01
		60.0°C	140°F			3.34	4.45	4.86	5.15	5.63	5.95	6.26

Note: Suction Gas Return 4.4°C

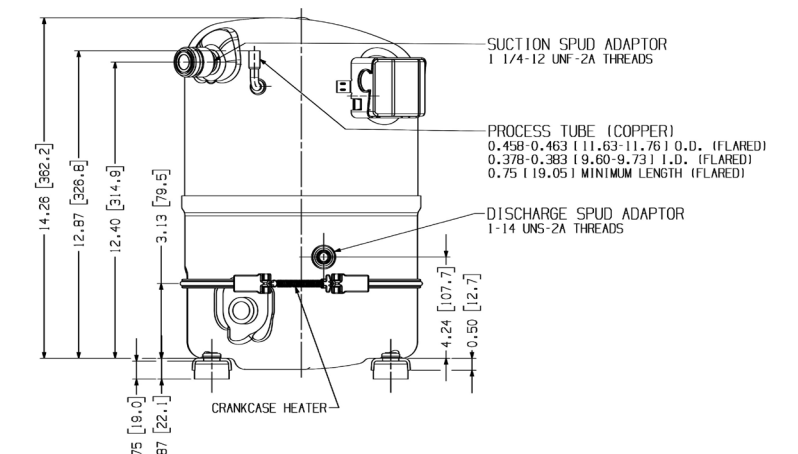
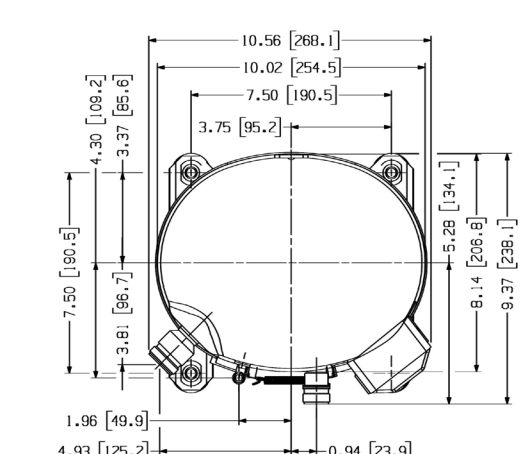
CS10 PFZ



CS13 CS17 PFZ



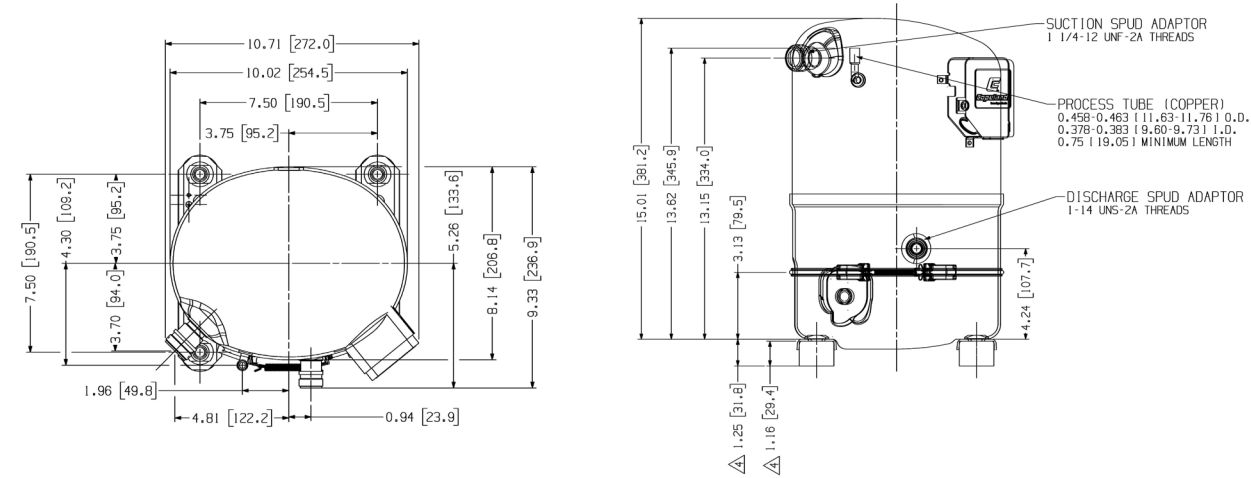
CS20, CS24 PFZ



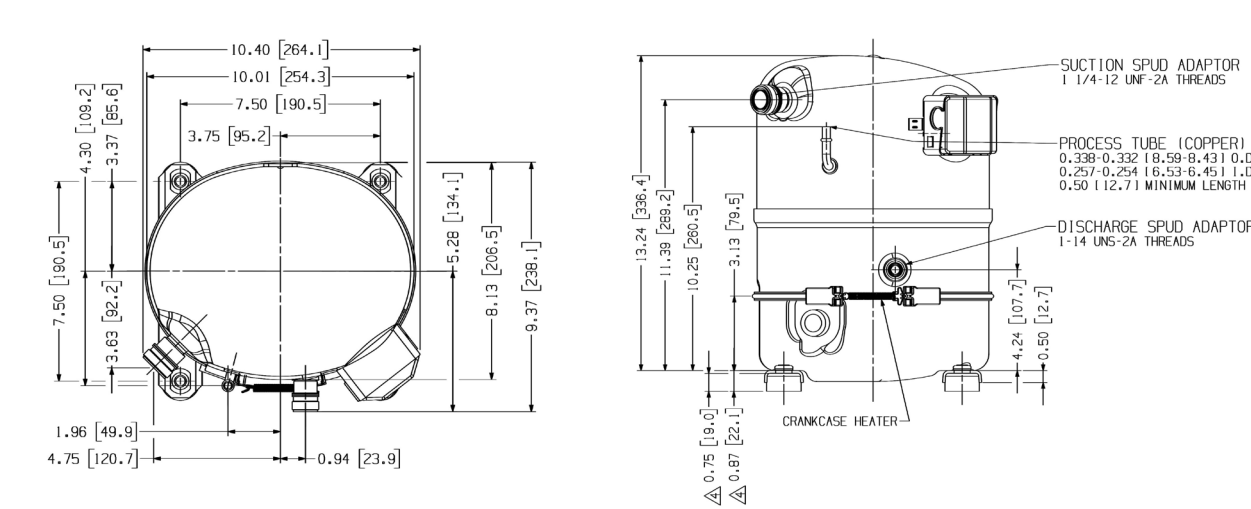
CSK7 Dimension Drawing - PFZ/TFM

50Hz

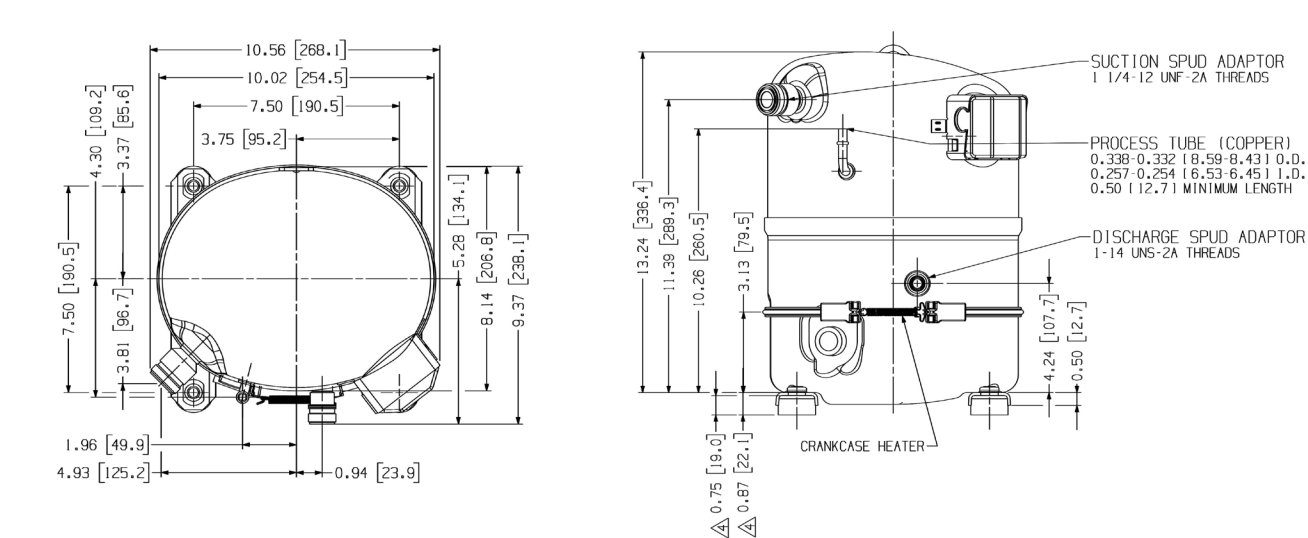
CS27 CS33 PFZ



CS10 TFM



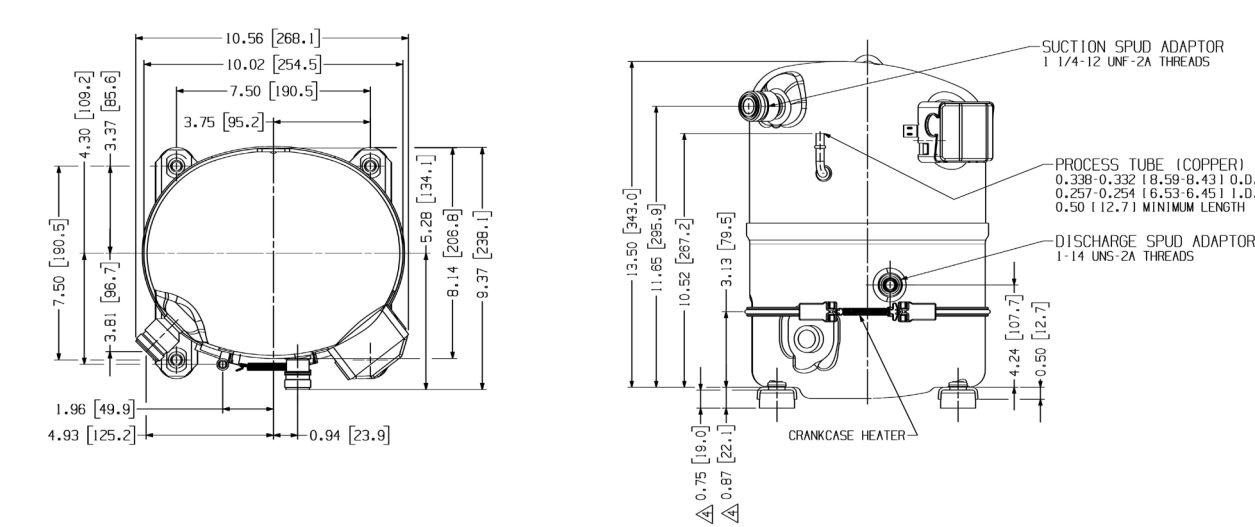
CS13 TFM



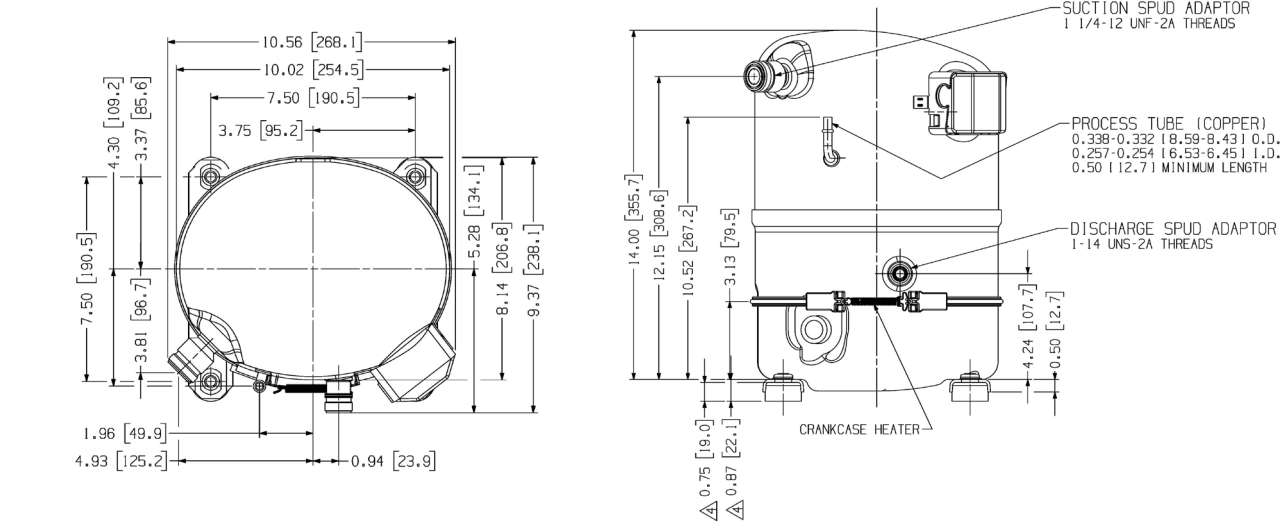
CSK7 Dimension Drawing - TFM

50Hz

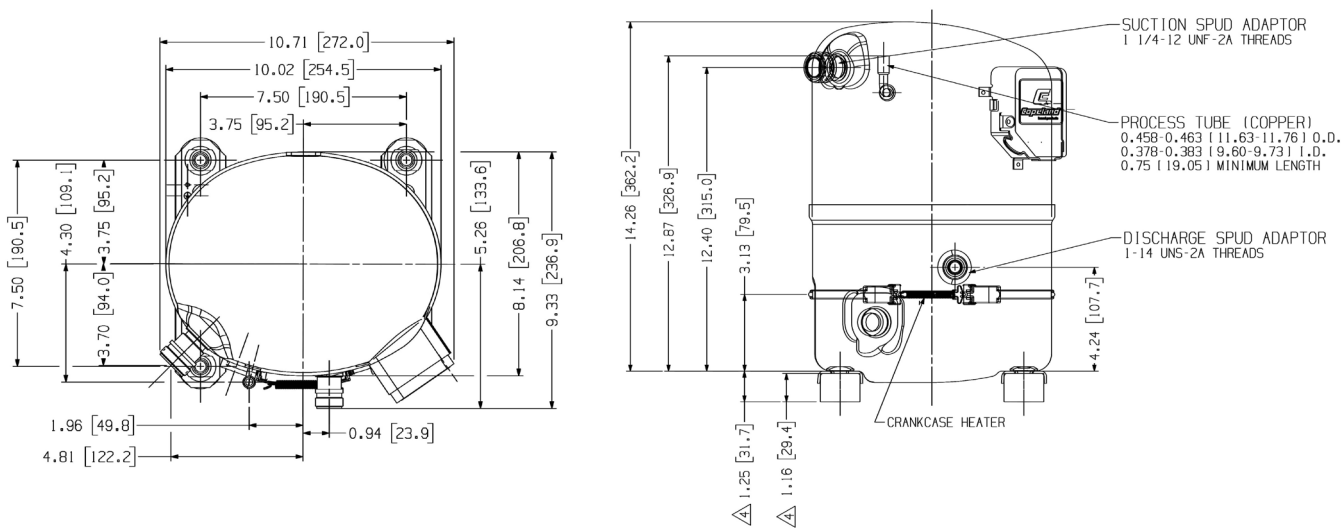
CS17 TFM



CS20 TFM



CS24, CS27 CS30, CS33 TFM



CSK7 Technical Data (1 of 2)

50 Hz Reference

Compressor Model			CS10K7	CS13K7	
Horsepower			HP	1.5 HP	2 HP
Displacement			cm³/rev	40.80	51.50
Maximum Continuous Current (MCC)	PFZ	Amps	13.50	17.80	
	TFM/TFD		5.10	6.10	
Locked Rotor Ampere	PFZ	Amps	54	72	
	TFM/TFD		20	28	
Outline Dimension – PFZ			Length (mm)	264	268
			Width (mm)	238	238
			Height (mm)	333	352
Outline Dimension - TFM			Length (mm)	264	268
			Width (mm)	238	238
			Height (mm)	339	339
Mounting Dimension			Length (mm)	191	191
			Width (mm)	191	191
Start Capacitor			μF @ V AC	80-100 @ 230	150-200 @ 230
Run Capacitor			μF @ V AC	36 @ 440	30-45 @ 440
Oil Type			KQ- Mineral Oil; KQE - POE Oil		
Oil Charge			cm³	1,330	1,330
Crankcase Heater Power			Watts	40	40
Net Weight			Kg	32.70	32.70
Compressor Per Pallet			Pcs	24 Pcs Per Pallet	
Compressor Per 20 Feet Container			Pcs	576 Pcs Per 20FT Container	
Compressor Per 20 Feet Container			Pcs	720 Pcs Per 20FT Container	

CSK7 Technical Data (2 of 2)

50Hz

CS17K7	CS20K7	CS24K7	CS27K7	CS30K7	CS33K7
2.5 HP	3 HP	3.5 HP	4 HP	4.5 HP	5 HP
59.60	71.90	78.80	88.30	94.60	101.90
21.30	24		50		50
7.30	9.70	11	13.80	14.20	16
85	104		161		161
41	45	66	61	61	55
268	268		272		272
238	238		237		237
352	365		384		384
78.80	88.30	94.60	101.90	78.80	88.30
78.80	88.30	94.60	101.90	78.80	88.30
78.80	88.30	94.60	101.90	78.80	88.30
191	191	191	191	191	191
191	191	191	191	191	191
120-150 @ 230	150-200 @ 230		189 - 227 @ 330		189 - 227 @ 330
30-45 @ 440	60 @ 440		60 @ 440		60 @ 440
KQ- Mineral Oil; KQE - POE Oil					
1,330	1,330	1,330	1,330	1,330	1,330
40	40	40	40	40	40
32.70	32.70	36.20	36.30	36.30	41
24 Pcs Per Pallet					
576 Pcs	480 Pcs Per 20FT Container				
720 Pcs	648 Pcs Per 40FT Container				

CSK7 Performance Data (1 of 2)

R404A 60Hz

Model		Condensing Temp		Evaporating Temp								
				-31.7°C	-26.1°C	-23.3°C	-17.8°C	-12.2°C	-6.7°C	-1.1°C	4.4°C	7.3°C
				-25°F	-15°F	-10°F	0°F	10°F	20°F	30°F	40°F	45°F
CS20K7 (1.5 HP)	Capacity (kW)	21.1°C	70°F	1.57	2.21	2.82	4.14	5.86	7.43	9.25	11.33	12.96
		26.7°C	80°F	1.23	1.86	2.59	3.80	5.13	6.63	8.37	10.38	11.52
		32.3°C	90°F	1.04	1.47	1.91	3.00	4.20	5.54	7.10	8.92	9.94
		37.8°C	100°F	0.72	1.25	1.35	2.36	3.44	4.66	6.07	7.71	
		43.3°C	110°F	0.44	0.94	1.22	1.81	2.82	3.93	5.22	6.72	7.57
		48.9°C	120°F	0.32	0.63	0.90	1.46	2.26	3.31	4.50	5.89	6.68
		54.4°C	130°F		0.35	0.61	1.11	1.73	2.74	3.87	5.17	5.91
		60.0°C	140°F			0.36	0.82	1.27	2.16	3.26	4.51	5.21
	Power (kW)	21.1°C	70°F	0.5	0.52	0.68	0.85	0.96	1.09	1.19	1.30	1.34
		26.7°C	80°F	0.53	0.56	0.72	0.96	1.09	1.24	1.4	1.50	1.55
		32.3°C	90°F	0.56	0.60	0.78	1.01	1.23	1.40	1.56	1.69	1.74
		37.8°C	100°F	0.60	0.63	0.83	1.06	1.35	1.53	1.69	1.83	1.89
		43.3°C	110°F	0.63	0.68	0.89	1.11	1.42	1.62	1.79	1.94	2.01
		48.9°C	120°F	0.66	0.72	0.94	1.17	1.48	1.68	1.86	2.03	2.10
		54.4°C	130°F		0.78	1.00	1.22	1.53	1.73	1.92	2.10	2.18
		60.0°C	140°F			1.06	1.28	1.59	1.77	1.98	2.17	2.26
CS24K7 (2 HP)	Capacity (kW)	21.1°C	70°F	1.96	2.77	3.53	5.17	7.32	9.28	11.56	14.16	16.20
		26.7°C	80°F	1.54	2.33	3.06	4.47	6.10	7.98	10.09	12.44	13.70
		32.3°C	90°F	1.31	1.84	2.30	3.56	5.03	6.73	8.63	10.75	11.89
		37.8°C	100°F	0.91	1.56	1.94	2.79	4.14	5.68	7.41	9.34	10.37
		43.3°C	110°F	0.55	1.17	1.52	2.11	3.36	4.79	6.38	8.15	9.10
		48.9°C	120°F	0.4	0.78	1.12	1.83	2.67	4.01	5.50	7.14	8.02
		54.4°C	130°F		0.44	0.76	1.38	2.00	3.29	4.71	6.26	7.09
		60.0°C	140°F			0.45	1.02	1.59	2.59	3.98	5.47	6.26
	Power (kW)	21.1°C	70°F	0.61	0.64	0.84	1.05	1.18	1.34	1.46	1.59	1.65
		26.7°C	80°F	0.65	0.69	0.96	1.18	1.32	1.48	1.60	1.69	1.79
		32.3°C	90°F	0.68	0.73	1.01	1.24	1.46	1.65	1.81	1.91	1.97
		37.8°C	100°F	0.74	0.78	1.05	1.29	1.52	1.73	1.91	2.06	2.12
		43.3°C	110°F	0.78	0.83	1.10	1.38	1.62	1.84	2.03	2.20	2.27
		48.9°C	120°F	0.81	0.89	1.16	1.43	1.74	1.96	2.16	2.34	0.24
		54.4°C	130°F		0.96	1.22	1.49	1.88	2.09	2.29	2.47	2.55
		60.0°C	140°F			1.30	1.57	1.96	2.24	2.43	2.60	2.68
CS37K6 (3 HP)	Capacity (kW)	21.1°C	70°F	3.01	4.01	4.58	6.91	10.12	13.96	17.33	21.29	22.82
		26.7°C	80°F	2.84	3.52	4.18	6.04	8.73	11.88	15.22	18.49	20.01
		32.3°C	90°F	2.40	3.38	3.80	5.10	7.23	9.90	12.86	15.83	17.23
		37.8°C	100°F	1.67	2.87	3.39	4.51	6.13	8.39	11.02	13.74	15.05
		43.3°C	110°F	1.02	2.16	2.80	4.14	5.31	7.21	9.56	12.10	
		48.9°C	120°F	0.74	1.44	2.06	3.37	4.65	6.25	8.38	10.79	12.01
		54.4°C	130°F		0.80	1.39	2.55	4.04	5.39	7.36	9.69	10.90
		60.0°C	140°F			0.82	1.88	2.93	4.51	6.37	8.68	9.92
	Power (kW)	21.1°C	70°F	0.90	1.02	1.21	1.47	1.77	2.02	2.33	2.54	2.63
		26.7°C	80°F	1.03	1.10	1.39	1.64	1.90	2.25	2.48	2.67	2.80
		32.3°C	90°F	1.09	1.17	1.51	1.87	2.17	2.43	2.67	2.88	2.97
		37.8°C	100°F	1.17	1.24	1.65	2.04	2.41	2.76	2.95	3.09	3.19
		43.3°C	110°F	1.24	1.32	1.74	2.21	2.65	2.99	3.24	3.44	3.52
		48.9°C	120°F	1.30	1.42	1.84	2.29	2.77	3.15	3.43	3.65	3.73
		54.4°C	130°F		1.53	1.95	2.38	2.90	3.27	3.58	3.84	3.94
		60.0°C	140°F			2.07	2.51	2.98	3.36	3.73	4.04	4.17

Note: Suction Gas Return 4.4°C

CSK7 Performance Data (2 of 2)

R404A 60Hz

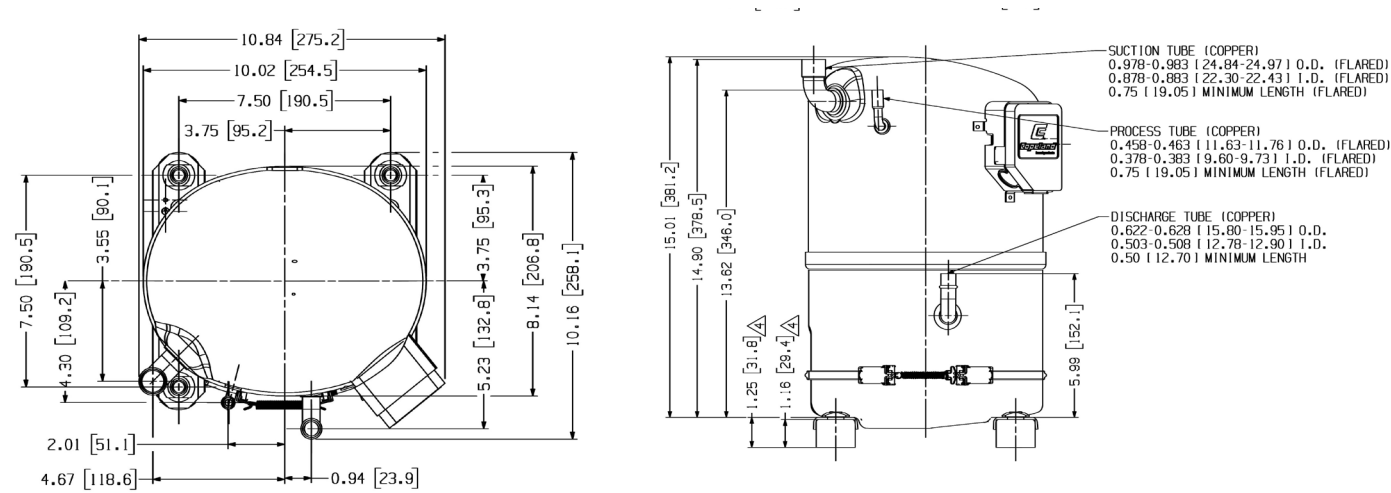
Model		Condensing Temp		Evaporating Temp								
				-31.7°C	-26.1°C	-23.3°C	-17.8°C	-12.2°C	-6.7°C	-1.1°C	4.4°C	7.3°C
				-25°F	-15°F	-10°F	0°F	10°F	20°F	30°F	40°F	45°F
CS47K7 (4 HP)	Capacity (kW)	21.1°C	70°F	4.03	5.09	7.62	9.92	12.84	16.60	21.07	24.31	26.06
		26.7°C	80°F	3.60	4.47	6.80	8.68	11.42	14.80	18.61	22.62	24.64
		32.3°C	90°F	3.05	4.01	5.83	7.28	9.60	12.58	16.00	19.65	21.50
		37.8°C	100°F	2.12	3.37	5.16	6.21	8.17	10.80	13.90	17.25	18.95
		43.3°C	110°F	1.29	2.52	3.56	5.38	7.02	9.36	12.19	15.29	16.87
		48.9°C	120°F	0.94	1.83	2.61	4.27	6.04	8.15	10.76	13.67	15.16
		54.4°C	130°F		1.02	1.77	3.23	5.11	7.04	9.50	12.26	13.69
		60.0°C	140°F			1.04	2.39	3.72	5.92	8.27	10.96	12.35
	Power (kW)	21.1°C	70°F	1.13	1.18	1.54	1.93	2.18	2.48	2.70	2.95	3.05
		26.7°C	80°F	1.19	1.27	1.70	2.13	2.36	2.62	2.91	3.15	3.21
		32.3°C	90°F	1.26	1.35	1.86	2.32	2.60	2.89	3.18	3.45	3.57
		37.8°C	100°F	1.36	1.44	1.95	2.51	2.95	3.25	3.53	3.78	3.89
		43.3°C	110°F	1.43	1.53	2.02	2.64	3.20	3.53	3.83	4.07	4.17
		48.9°C	120°F	1.50	1.64	2.14	2.74	3.35	3.74	4.07	4.34	4.44
		54.4°C	130°F		1.77	2.26	2.85	3.46	3.89	4.28	4.59	4.70
		60.0°C	140°F			2.40	3.00	3.61	3.99	4.46	4.83	4.97
CS62K7 (5 HP)	Capacity (kW)	21.1°C	70°F	5.17	6.54	9.77	12.73	16.48	21.30	27.05	31.20	33.44
		26.7°C	80°F	4.62	5.73	8.22	10.83	14.46	18.89	23.87	29.17	31.87
		32.3°C	90°F	3.91	5.15	7.49	9.71	12.81	16.78	21.35	26.23	28.69
		37.8°C	100°F	2.71	4.32	6.29	8.29	10.90	14.41	18.55	23.02	25.28
		43.3°C	110°F	1.66	3.23	4.56	7.17	9.37	12.50	16.27	20.40	22.51
		48.9°C	120°F	1.21	2.34	3.35	5.48	8.06	10.87	14.36	18.24	20.23
		54.4°C	130°F		1.31	2.27	4.15	6.81	9.39	12.67	16.36	18.27
		60.0°C	140°F			1.34	3.06	4.78	7.90	11.04	14.62	16.49
	Power (kW)	21.1°C	70°F	1.62	1.70	2.22	2.78	3.14	3.57	3.90	4.24	4.40
		26.7°C	80°F	1.72	1.83	2.45	3.07	3.40	3.77	4.20	4.54	4.63
		32.3°C	90°F	1.82	1.95	2.68	3.33	3.75	4.17	4.58	4.96	5.14
		37.8°C	100°F	1.96	2.08	2.81	3.61	4.25	4.69	5.09	5.44	5.60
		43.3°C	110°F	2.06	2.21	2.91	3.81	4.60	5.09	5.51	5.86	6.01
		48.9°C	120°F	2.17	2.36	3.08	3.95	4.82	5.39	5.87	6.24	6.39
		54.4°C	130°F		2.55	3.26	4.11	4.99	5.63	6.18	6.66	6.83
		60.0°C	140°F			3.45	4.32	5.20	5.80	6.46	6.98	7.18

Note: Suction Gas Return 4.4°C

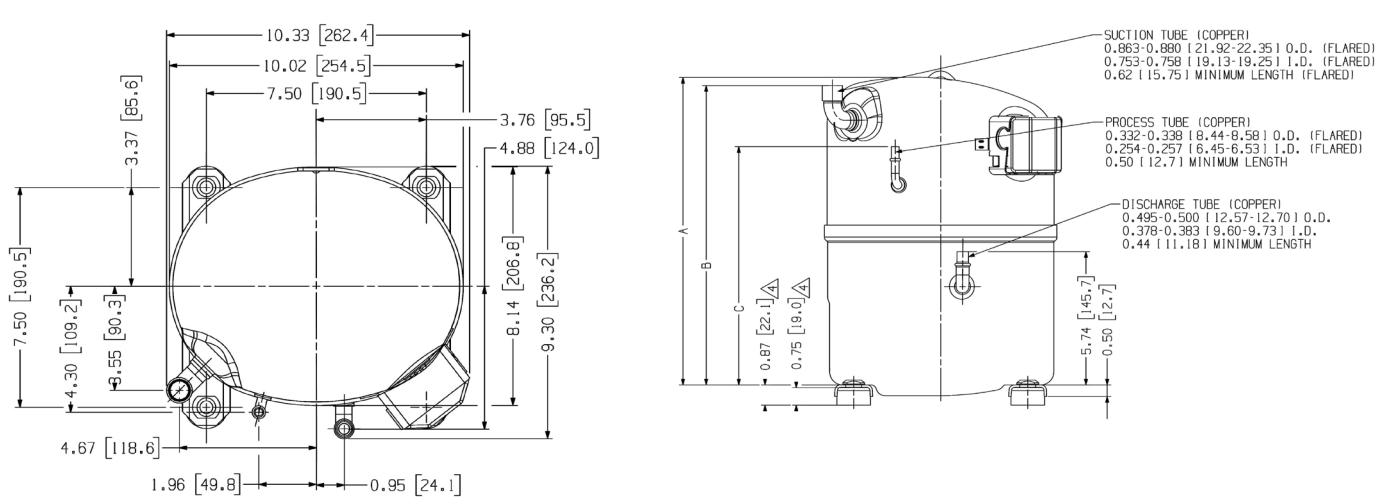
CSK7 Dimension Drawing – PFV

60Hz

CS20 PFV



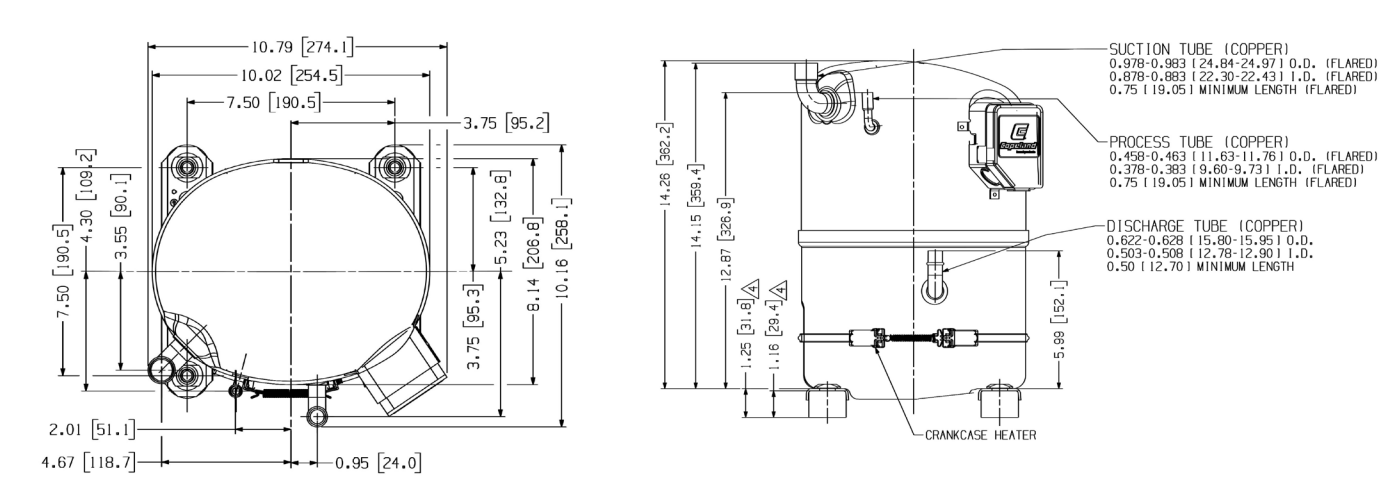
CS20, CS24, CS37 PFV



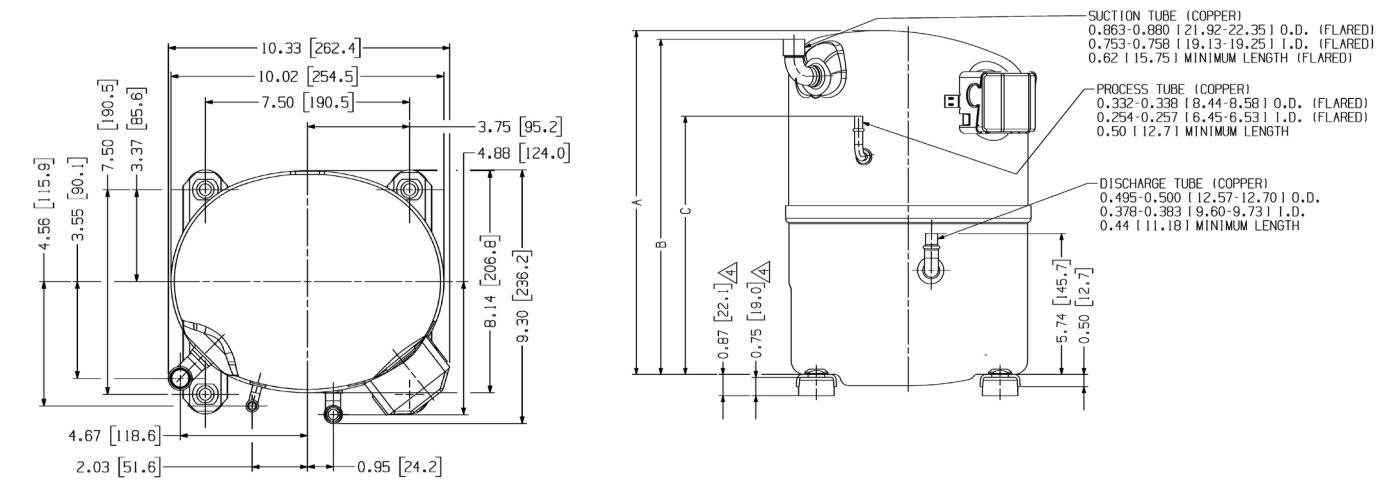
CSK7 Dimension Drawing – TF5/TFD

60Hz

CS24 CS37 CS37 TF5 TFD



CS47 CS62 TF5 TFD



CSK7 Technical Data (1 of 2)

60 Hz Reference

Compressor Model			CS20K7	CS24K7
Horsepower		HP	1.5 HP	2 HP
Displacement		cm³/rev	39	42.30
Maximum Continuous Current (MCC)	PFV	Amps	18.70	19.50
	TF5			14.50
	TFD			6.80
Locked Rotor Ampere	PFV	Amps	60	60
	TF5			60
	TFD			29
Outline Dimension - PFV		Length (mm)	260	241
		Width (mm)	205	190
		Height (mm)	330	330
Outline Dimension – TF5		Length (mm)		262
		Width (mm)		236
		Height (mm)		339
Outline Dimension – TFD		Length (mm)		262
		Width (mm)		236
		Height (mm)		339
Mounting Dimension		Length (mm)	191	191
		Width (mm)	191	191
Start Capacitor		μF @ V AC	150-200 @ 230	150-200 @ 230
Run Capacitor		μF @ V AC	36 @370	36 @370
Oil Type			KQE - POE Oil	
Oil Charge		cm³	1,330	1,330
Crankcase Heater Power		Watts	40	40
Net Weight		Kg	29.80	32
Compressor Per Pallet		Pcs	24 Pcs Per Pallet	
Compressor Per 20 Feet Container		Pcs	480 Pcs Per 20FT Container	
Compressor Per 20 Feet Container		Pcs	648 Pcs Per 20FT Container	

CSK7 Technical Data (2 of 2)

60Hz

CS37K7	CS47K7	CS62K7
3 HP	4 HP	5 HP
63.40	82.80	102
26.50	25.80	49
22	29	32.80
11	14.50	19.50
86	125	155
100	126	125
53	60	63
260	260	260
204	204	204
356	362	392
262	274	274
236	258	258
339	365	365
262	274	274
236	258	258
358	365	365
191	191	191
191	191	191
270-324 @ 330	189 - 227 @ 330	189 - 227 @ 330
50 @ 440	60 @ 440	60 @ 440
KQE - POE Oil		
1,330	1,330	1,330
40	40	40
33	36	37
24 Pcs Per Pallet		
480 Pcs Per 20FT Container		
648 Pcs Per 20FT Container		

Model		Condensing Temp		Evaporating Temp								
				-23.3°C	-17.8°C	-12.2°C	-6.7°C	-1.1°C	4.4°C	7.2°C	10.0°C	12.8°C
				-10°F	0°F	10°F	20°F	30°F	40°F	45°F	50°F	55°F
CR22 (1.5 HP)	Capacity (kW)	37.8°C	100°F	1.06	1.76	2.61	3.64	4.85	6.28	7.08	7.94	8.87
		43.3°C	110°F		1.46	2.26	3.22	4.37	5.71	6.47	7.28	8.15
		48.9°C	120°F			1.91	2.81	3.88	5.14	5.85	6.61	7.43
		54.4°C	130°F			1.58	2.42	3.41	4.58	5.22	5.95	6.72
		60.0°C	140°F				2.05	2.96	4.05	4.66	5.32	6.03
	Power (kW)	37.8°C	100°F	0.81	0.90	1.02	1.15	1.28	1.37	1.40	1.42	1.42
		43.3°C	110°F		0.89	1.05	1.21	1.37	1.49	1.54	1.57	1.59
		48.9°C	120°F			1.04	1.24	1.43	1.59	1.65	1.70	1.74
		54.4°C	130°F			1.01	1.25	1.47	1.67	1.75	1.82	1.87
		60.0°C	140°F				1.24	1.50	1.74	1.84	1.92	1.99
CR24 (2 HP)	Capacity (kW)	37.8°C	100°F	0.94	1.99	2.97	4.19	5.39	6.98	7.80	8.79	9.82
		43.3°C	110°F		1.58	2.58	3.63	4.86	6.37	7.18	8.06	9.01
		48.9°C	120°F			2.14	3.25	4.32	5.77	6.56	7.33	8.21
		54.4°C	130°F			1.67	2.81	3.84	5.10	5.83	6.59	7.44
		60.0°C	140°F				2.23	3.34	4.48	5.22	5.92	6.68
	Power (kW)	65.6°C	150°F				1.82	2.81	3.88	4.54	5.22	5.92
		37.8°C	100°F	0.80	0.96	1.12	1.29	1.45	1.50	1.53	1.57	1.61
		43.3°C	110°F		0.97	1.14	1.34	1.52	1.65	1.69	1.74	1.78
		48.9°C	120°F			1.16	1.43	1.59	1.74	1.82	1.88	1.95
		54.4°C	130°F			1.26	1.49	1.72	1.90	1.98	2.07	2.15
CR30 (2.5 HP)	Capacity (kW)	60.0°C	140°F				1.64	1.77	1.95	2.12	2.21	2.25
		65.6°C	150°F				1.71	1.88	2.04	2.15	2.24	0.02
	Power (kW)	37.8°C	100°F	1.51	2.46	3.58	4.92	6.39	8.12	9.11	10.23	11.46
		43.3°C	110°F		2.19	3.25	4.48	5.63	7.47	8.41	9.47	10.67
		48.9°C	120°F			2.82	3.96	5.22	6.74	7.65	8.65	9.79
	Power (kW)	54.4°C	130°F			2.36	3.40	4.57	5.98	6.95	7.82	8.91
		60.0°C	140°F				0.48	0.57	0.66	0.69	0.73	0.76
		37.8°C	100°F	1.05	1.18	1.33	1.49	1.64	1.76	1.80	1.83	1.85
		43.3°C	110°F		1.12	1.31	1.52	1.71	1.87	1.94	1.99	2.03
		48.9°C	120°F			1.35	1.60	1.83	2.03	2.12	2.20	2.26
CR34 (2.75 HP)	Capacity (kW)	54.4°C	130°F			1.38	1.66	1.93	2.18	2.28	2.38	2.46
		60.0°C	140°F				1.64	1.95	2.24	2.36	2.48	2.58
	Power (kW)	37.8°C	100°F	2.06	3.07	4.28	5.73	7.46	9.50	10.64	11.87	13.20
		43.3°C	110°F		2.68	3.83	5.20	6.84	8.76	9.84	11.01	12.27
		48.9°C	120°F			3.39	4.68	6.21	8.02	9.04	10.14	11.32
	Power (kW)	54.4°C	130°F			2.95	4.16	5.59	7.28	8.29	9.27	10.38
		60.0°C	140°F				3.65	4.98	6.55	7.44	8.40	9.44
		65.6°C	150°F				3.17	4.39	5.84	6.65	7.54	8.51
		37.8°C	100°F	1.25	1.49	1.71	1.90	2.05	2.14	2.17	2.17	2.16
		43.3°C	110°F		1.50	1.76	2.00	2.20	2.34	2.39	2.42	2.44

Note: Suction Gas Return 4.4°C

Model		Condensing Temp		Evaporating Temp								
				-23.3°C	-17.8°C	-12.2°C	-6.7°C	-1.1°C	4.4°C	7.2°C	10.0°C	12.8°C
				-10°F	0°F	10°F	20°F	30°F	40°F	45°F	50°F	55°F
CR36 (3 HP)	Capacity (kW)	37.8°C	100°F	1.81	3.02	4.40	5.98	7.77	9.82	10.93	12.16	13.45
		43.3°C	110°F		2.55	3.90	5.42	7.12	9.06	10.14	11.28	12.51
		48.9°C	120°F			3.37	4.84	6.48	8.32	9.32	10.40	11.55
		54.4°C	130°F			2.84	4.25	5.83	7.56	8.53	9.55	10.61
		60.0°C	140°F				3.69	5.19	6.86	7.74	8.70	9.70
	Power (kW)	37.8°C	100°F	1.20	1.46	1.69	1.86	1.99	2.07	2.09	2.09	2.07
		43.3°C	110°F		1.45	1.73	1.95	2.13	2.25	2.29	2.32	2.33
		48.9°C	120°F			1.74	2.02	2.25	2.43	2.49	2.54	2.58
		54.4°C	130°F			1.73	2.07	2.36	2.59	2.68	2.76	2.82
		60.0°C	140°F				2.09	2.44	2.73	2.85	2.96	3.05
CR37 (3 HP)	Capacity (kW)	37.8°C	100°F	1.99	3.14	4.48	6.21	8.35	10.61	11.84	13.10	14.59
		43.3°C	110°F		2.78	3.99	5.63	7.65	9.73	10.90	12.10	13.42
		48.9°C	120°F			3.58	4.98	6.92	8.97	9.99	11.20	12.43
		54.4°C	130°F			3.14	4.57	6.21	8.09	9.14	10.23	11.40
		60.0°C	140°F				3.90	5.54	7.27	8.26	9.32	10.37
	Power (kW)	65.6°C	150°F				3.43	4.84	6.45	7.36	8.38	9.35
		37.8°C	100°F	1.36	1.55	1.81	2.05	2.26	2.42	2.48	2.54	2.60
		43.3°C	110°F		1.57	1.85	2.14	2.37	2.53	2.66	2.71	2.80
		48.9°C	120°F			1.88	2.21	2.50	2.70	2.82	2.92	3.02
		54.4°C	130°F			1.91	2.26	2.59	2.90	3.00	3.14	3.22
CR42 (3.5 HP)	Capacity (kW)	60.0°C	140°F				2.28	2.66	3.01	3.19	3.30	3.42
		65.6°C	150°F				2.41	2.70	3.12	3.35	3.46	3.62
	Power (kW)	37.8°C	100°F	2.75	3.75	5.22	7.03	9.11	11.61	13.01	14.57	16.24
		43.3°C	110°F		3.37	4.66	6.36	8.35	10.70	12.02	13.48	15.03
		48.9°C	120°F			4.16	5.71	7.59	9.76	11.05	12.40	13.86
	Power (kW)	54.4°C	130°F			3.69	5.04	6.80	8.88	10.02	11.28	12.69
		60.0°C	140°F				4.40	6.04	7.94	9.06	10.20	11.49
		37.8°C	100°F	1.50	1.68	1.92	2.19	2.37	2.48	2.52	2.55	2.57
		43.3°C	110°F		1.70	1.95	2.29	2.52	2.70	2.77	2.83	2.88
		48.9°C	120°F			1.99	2.37	2.65	2.89	2.99	3.07	3.15
CR47 (4 HP)	Capacity (kW)	54.4°C	130°F			2.02	2.41	2.75	3.04	3.30	3.29	3.40
		60.0°C	140°F				2.43	2.82	3.17	3.45	3.49	3.62
	Power (kW)	37.8°C	100°F	3.75	4.94	6.45	8.23	10.30	12.90	14.61	15.85	17.52
		43.3°C	110°F		4.59	6.07	7.80	9.75	12.14	13.93	15.04	16.64
		48.9°C	120°F			5.57	7.21	9.10	11.32	12.56	14.17	15.64
	Power (kW)	54.4°C	130°F			5.12	6.63	8.59	10.57	11.63	13.20	14.64
		60.0°C	140°F				6.08	7.95	9.86	11.04	12.29	13.69
		65.6°C	150°F					7.57	9.29	10.40	11.52	12.34
		37.8°C	100°F	2.02	2.26	2.47	2.05	2.72	2.73	2.71	2.65	2.57
		43.3°C	110°F		2.40	2.66	2.87	3.03	3.11	3.12	3.10	3.06

Note: Suction Gas Return 4.4°C

CR Performance Data (3 of 3)

R22 50Hz

Model		Condensing Temp		Evaporating Temp								
				-23.3°C	-17.8°C	-12.2°C	-6.7°C	-1.1°C	4.4°C	7.2°C	10.0°C	12.8°C
				-10°F	0°F	10°F	20°F	30°F	40°F	45°F	50°F	55°F
CR53 (4.5 HP)	Capacity (kW)	37.8°C	100°F	1.37	5.66	6.89	8.93	11.25	14.16	15.76	17.41	19.27
		43.3°C	110°F		4.87	6.51	8.44	10.66	13.28	15.20	16.57	18.36
		48.9°C	120°F			6.03	7.85	10.02	12.45	14.05	15.68	17.24
		54.4°C	130°F			5.52	7.23	9.32	11.61	13.10	14.61	16.20
		60.0°C	140°F				6.64	8.66	10.92	12.22	13.66	7.23
		65.6°C	150°F					8.28	10.37	11.54	12.79	14.13
	Power (kW)	37.8°C	100°F	2.34	2.61	2.79	2.98	3.11	3.14	3.12	3.07	2.98
		43.3°C	110°F		2.69	2.34	3.26	3.45	3.55	3.57	3.56	3.52
		48.9°C	120°F			3.20	3.52	3.77	3.95	4.01	4.04	4.04
		54.4°C	130°F			3.37	3.75	4.08	4.33	4.35	4.50	4.55
		60.0°C	140°F				3.96	4.37	4.69	4.85	4.96	5.03
		65.6°C	150°F					4.67	5.08	5.26	5.41	5.55
CR57 (5 HP)	Capacity (kW)	37.8°C	100°F	3.46	5.10	7.21	9.76	12.75	16.18	18.02	19.99	22.01
		43.3°C	110°F		4.45	6.45	8.82	11.63	14.86	16.62	18.46	20.40
		48.9°C	120°F			5.74	7.97	10.64	13.66	15.30	17.03	18.87
		54.4°C	130°F			5.04	7.15	9.64	12.48	14.01	15.68	17.41
		60.0°C	140°F				6.30	8.62	11.28	12.75	14.30	15.91
		65.6°C	150°F				5.30	7.50	10.02	11.37	12.84	14.36
	Power (kW)	37.8°C	100°F	2.08	2.42	2.79	3.15	3.45	3.66	3.72	3.74	3.78
		43.3°C	110°F		2.38	2.80	3.21	3.58	3.85	3.94	3.98	3.99
		48.9°C	120°F			2.92	3.40	3.83	4.17	4.30	4.39	4.43
		54.4°C	130°F			3.03	3.59	4.10	4.53	4.65	4.84	4.93
		60.0°C	140°F				3.63	4.28	4.82	5.04	5.23	5.37
		65.6°C	150°F				3.65	4.26	4.91	5.19	5.44	5.65
CR62 (5.5 HP)	Capacity (kW)	37.8°C	100°F	4.73	6.27	8.24	10.46	13.21	16.43	18.13	20.06	22.17
		43.3°C	110°F		5.86	7.73	9.90	12.54	15.55	17.27	19.13	21.14
		48.9°C	120°F			7.19	9.25	11.72	14.63	16.27	18.04	19.95
		54.4°C	130°F			6.65	8.59	10.97	13.67	15.09	16.94	18.76
		60.0°C	140°F				7.90	10.18	12.73	14.23	15.74	17.53
		65.6°C	150°F					9.43	12.00	13.20	14.70	16.17
	Power (kW)	37.8°C	100°F	2.69	3.00	3.27	3.46	3.58	3.59	3.55	3.49	3.38
		43.3°C	110°F		3.20	3.53	3.79	3.98	4.07	4.08	4.06	4.01
		48.9°C	120°F			3.77	4.11	4.38	4.55	4.61	4.64	4.63
		54.4°C	130°F			3.99	4.40	4.74	5.00	5.10	5.17	5.21
		60.0°C	140°F				4.66	5.09	5.43	5.58	5.69	5.78
		65.6°C	150°F					5.21	5.87	5.98	6.14	6.28
CR72 (6 HP)	Capacity (kW)	37.8°C	100°F	6.82	9.84	12.24	14.36	16.55	19.16	20.74	22.55	24.65
		43.3°C	110°F		8.87	11.38	13.56	15.77	18.35	19.89	21.65	23.68
		48.9°C	120°F			10.71	12.85	14.96	17.39	18.84	20.49	22.41
		54.4°C	130°F			10.28	12.27	14.17	16.35	17.58	19.14	20.88
		60.0°C	140°F				11.89	13.48	15.29	16.38	17.66	19.17
		65.6°C	150°F				11.78	12.94	14.27	15.10	16.11	17.34
	Power (kW)	37.8°C	100°F	3.05	3.40	3.71	4.01	4.34	4.72	4.93	5.17	5.44
		43.3°C	110°F		3.56	4.03	4.44	4.82	5.20	5.40	5.61	5.83
		48.9°C	120°F			4.08	4.64	5.12	5.54	5.74	5.94	6.14
		54.4°C	130°F			3.97	4.72	5.34	5.85	6.10	6.28	6.47
		60.0°C	140°F				4.81	5.60	6.24	6.50	6.74	6.95
		65.6°C	150°F				5.01	6.02	6.82	7.15	7.43	7.68

Note: Suction Gas Return 4.4°C



CR Technical Data (1 of 2)

50 Hz Reference

Compressor Model			CR22K6	CR24K6	CR30K6
Horsepower		HP	1.50 HP	2 HP	2.5 HP
Displacement		cm³/rev	40.80	44.30	51.50
Maximum Continuous Current (MCC)	PFZ	Amps	13.50	13.50	17.80
	TFM/TFD		4.50	5.50	6.1
Locked Rotor Ampere	PFZ	Amps	54	61	72
	TFM/TFD		20	28	28
Outline Dimension - PFZ		Length (mm)	241	241	241
		Width (mm)	231	231	229
		Height (mm)	342	342	361
Outline Dimension - TFM		Length (mm)	235		235
		Width (mm)	229		229
		Height (mm)	348		348
Outline Dimension - TFD		Length (mm)		235	
		Width (mm)		229	
		Height (mm)		348	
Mounting Dimension		Length (mm)	191	191	191
		Width (mm)	191	191	191
Start Capacitor		μF @ V AC	80 - 100 @ 230	150 - 200 @ 230	150 - 200 @ 230
Run Capacitor		μF @ V AC	36 @ 440	36 @ 370	45 @ 440V
Oil Type			K6M and KQM - Mineral Oil; K6ME and KQME - POE Oil		
Oil Charge		cm³	1,330	1,330	1,330
Crankcase Heater Power		Watts	35	35	35
Net Weight		Kg	29.80	29.80	32.50
Compressor Per Pallet		Pcs	24 Pcs per Pallet		
Compressor Per 20 Feet Container		Pcs	576 Pcs per 20FT Container		
Compressor Per 20 Feet Container		Pcs	720 Pcs per 40FT Container		

CR Technical Data (2 of 2)

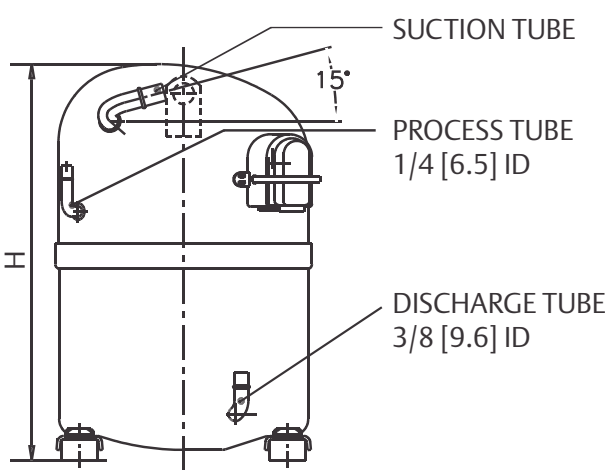
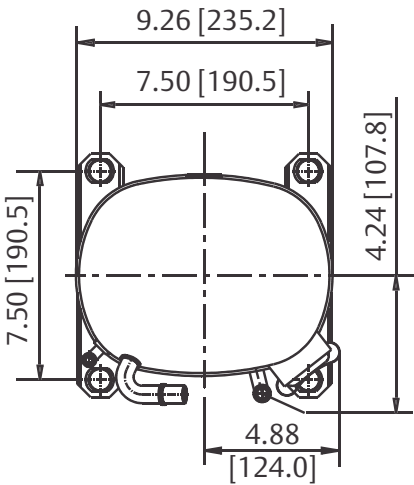
50Hz

CR36K6	CS42K6	CR47KQ	CR53KQ	CR57KQ	CR62KQ	CR72KQ
2.75 HP	3 HP	4 HP	4.5 HP	4.75	5 HP	6 HP
59.70	72.10	82.70	88.30	94.60	101.90	115.80
21.30	24	30.10				
7.30	8	11	13.80	14.20	16	19.50
85	104	110				
41	45	60	61	61	65	69
263	262	264				
235	236	236				
352	365	365				
262	262					274.10
236	236					256.80
346	359					364.60
		274	274	274	274	
		257	257	257	257	
		365	365	365	365	
191	191	191	191	191	191	191
191	191	191	191	191	191	191
130-156 @ 250	189-227 @ 330	189-227 @ 330				
45 @ 370	60 @ 370	60 @ 440				
K6M and KQM - Mineral Oil; K6ME and KQME - POE Oil						
1,330	1,330	1,330	1,330	1,330	1,330	1,330
40	40	40	40	40	40	40
34.90	34.90	36	36.20	36.20	36.20	37.50
24 Pcs per Pallet						
480 Pcs per 20FT Container						
648 Pcs Per 40FT Container						

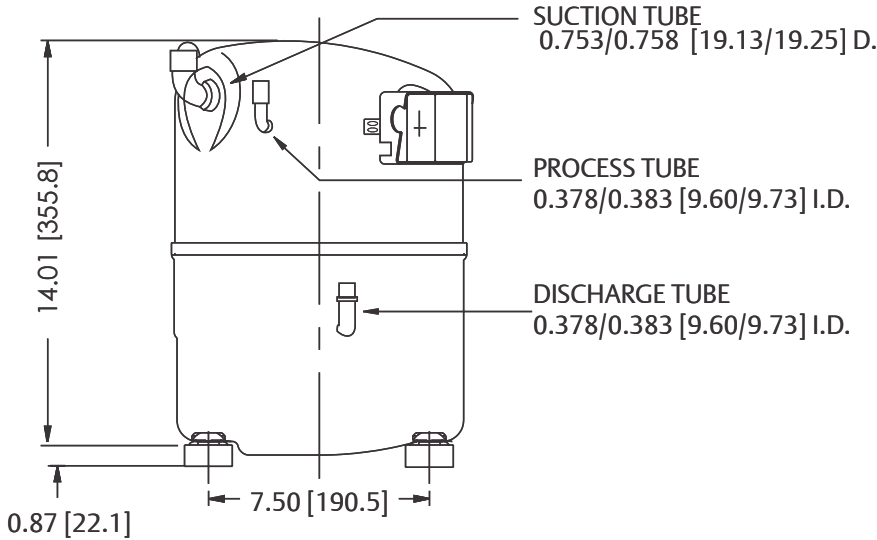
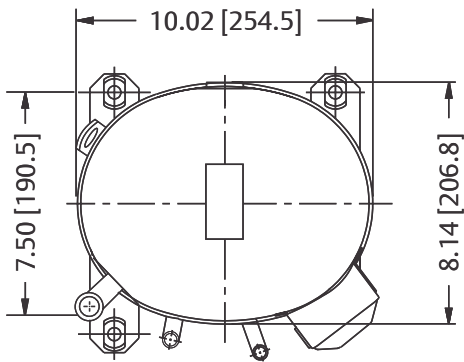
Dimension Drawing - CR

CR22K6M / CR30K6M

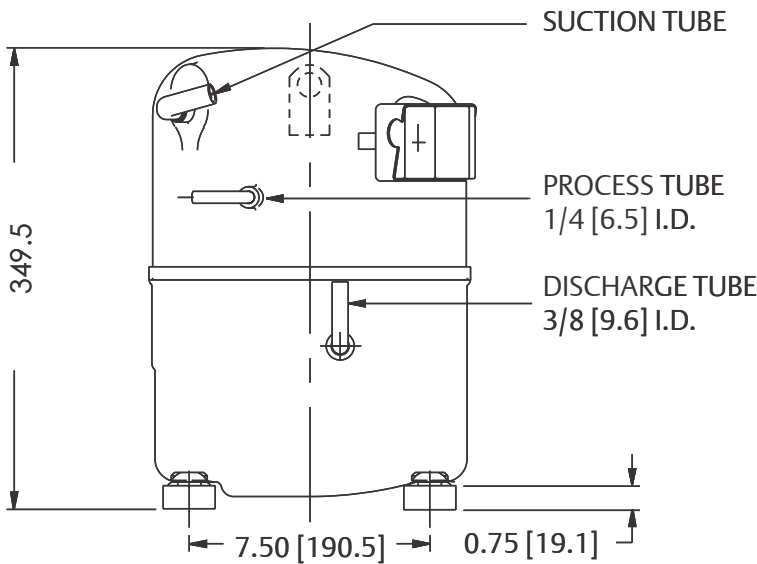
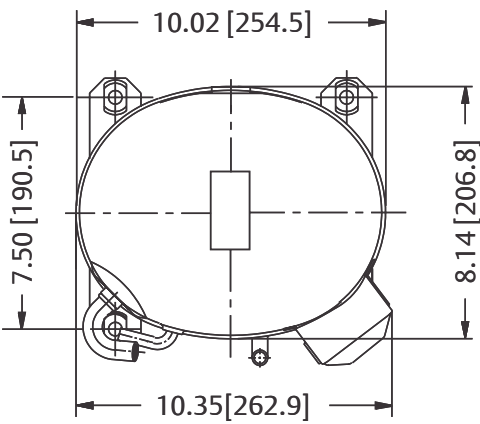
Model	Suction Tube		Height (H)	
	inch	mm	inch	mm
CR22K6M	1/2	12.8	14.2	361
CR30K6M	5/8	15.9	14.9	381



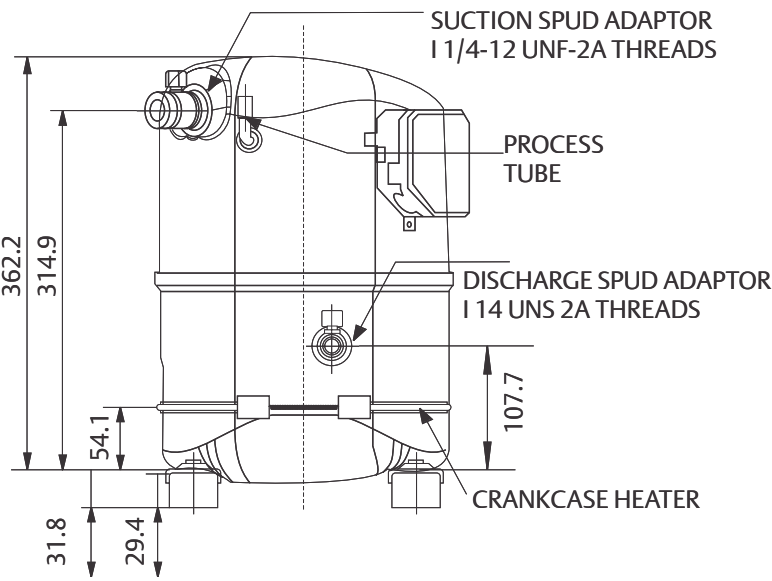
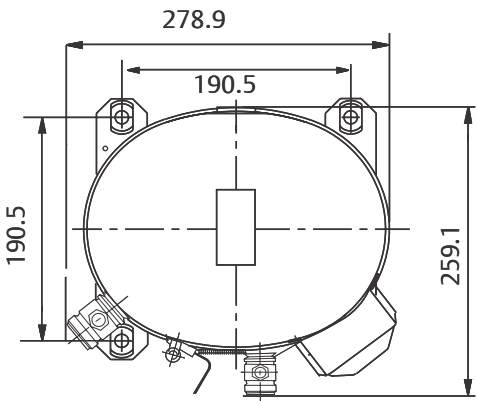
CR42K6M



CR36K6M



CR47, 53, 57, 62, 72 KQM



CR Performance Data (1 of 2)

R22 60Hz

Model		Condensing Temp		Evaporating Temp								
				-23.3°C	-17.8°C	-12.2°C	-6.7°C	-1.1°C	4.4°C	7.2°C	10.0°C	12.8°C
				-10°F	0°F	10°F	20°F	30°F	40°F	45°F	50°F	55°F
CR18K8	Capacity (kW)	37.8°C	100°F	0.85	1.67	2.55	3.63	4.75	6.18	6.95	7.80	0.85
		43.3°C	110°F		1.23	2.20	3.14	4.40	5.63	6.39	7.15	7.91
		48.9°C	120°F			1.70	2.75	3.81	5.13	5.77	6.54	7.30
		54.4°C	130°F			1.29	2.23	3.37	4.54	5.22	5.92	6.65
		60.0°C	140°F				1.73	2.78	3.99	4.60	5.28	5.98
	Power (kW)	37.8°C	100°F	0.82	0.87	0.96	1.07	1.22	1.28	1.30	1.33	1.35
		43.3°C	110°F		0.89	0.99	1.12	1.26	1.39	1.41	1.44	1.46
		48.9°C	120°F			1.01	1.18	1.34	1.46	1.52	1.55	1.58
		54.4°C	130°F			1.06	1.20	1.37	1.54	1.60	1.67	1.73
		60.0°C	140°F				1.23	1.39	1.56	1.66	1.73	1.82
CR20K6M	Capacity (kW)	37.8°C	100°F	0.71	1.69	2.68	3.77	5.02	6.52	7.39	8.35	9.41
		43.3°C	110°F		1.46	2.45	3.48	4.64	6.02	6.81	7.68	8.64
		48.9°C	120°F			2.12	3.12	4.21	5.48	6.19	6.98	7.85
		54.4°C	130°F			1.72	2.71	3.74	4.91	5.55	6.28	7.07
		60.0°C	140°F				2.25	3.25	4.33	4.93	5.58	6.30
	Power (kW)	37.8°C	100°F	0.85	1.02	1.18	1.34	1.46	1.55	1.58	1.59	1.58
		43.3°C	110°F		1.07	1.23	1.39	1.54	1.66	1.70	1.73	1.75
		48.9°C	120°F			1.27	1.43	1.59	1.74	1.80	1.86	1.90
		54.4°C	130°F			1.30	1.46	1.63	1.81	1.88	1.96	2.03
		60.0°C	140°F				1.47	1.66	1.85	1.95	2.05	2.14
CR24K6M	Capacity (kW)	37.8°C	100°F	0.82	1.96	3.10	4.36	5.81	7.54	8.55	9.66	10.89
		43.3°C	110°F		1.69	2.83	4.03	5.37	6.96	7.88	8.88	10.00
		48.9°C	120°F			2.45	3.61	4.88	6.34	7.17	8.08	9.09
		54.4°C	130°F			1.99	3.13	4.33	5.68	6.42	7.27	8.18
		60.0°C	140°F				2.60	3.76	5.01	5.71	6.46	7.29
	Power (kW)	65.6°C	150°F				2.04	3.17	4.35	4.99	5.68	6.43
		37.8°C	100°F	0.78	1.05	1.27	1.45	1.59	1.70	1.74	1.78	1.81
		43.3°C	110°F		1.01	1.26	1.47	1.66	1.82	1.89	1.95	2.01
		48.9°C	120°F			1.24	1.49	1.71	1.91	2.01	2.10	2.19
		54.4°C	130°F			1.19	1.47	1.73	1.98	2.10	2.22	2.34
CR32K6M	Capacity (kW)	60.0°C	140°F				1.42	1.71	2.00	2.15	2.29	2.44
		65.6°C	150°F				1.32	1.65	1.97	2.14	2.31	2.48
		37.8°C	100°F	1.12	2.62	4.19	6.03	8.34	11.30	13.08	15.11	17.39
		43.3°C	110°F		2.14	3.66	5.40	7.53	10.27	11.92	13.79	15.91
		48.9°C	120°F			3.09	4.72	6.69	9.20	10.72	12.44	14.40
	Power (kW)	54.4°C	130°F			2.48	4.00	5.81	8.09	9.48	11.05	12.85
		60.0°C	140°F				3.25	4.89	6.96	8.21	9.64	11.27
		37.8°C	100°F	1.17	1.57	1.90	2.16	2.38	2.54	2.60	2.66	2.70
		43.3°C	110°F		1.51	1.88	2.20	2.48	2.72	2.82	2.92	3.01
		48.9°C	120°F			1.85	2.22	2.56	2.86	3.01	3.15	3.28

Note: Suction Gas Return 4.4°C

CR Performance Data (2 of 2)

R22 60Hz

Model		Condensing Temp		Evaporating Temp								
				-23.3°C	-17.8°C	-12.2°C	-6.7°C	-1.1°C	4.4°C	7.2°C	10.0°C	12.8°C
				-10°F	0°F	10°F	20°F	30°F	40°F	45°F	50°F	55°F
CR42K6	Capacity (kW)	37.8°C	100°F	1.71	3.62	5.61	7.83	10.42	13.56	15.38	17.39	19.62
		43.3°C	110°F		3.00	4.95	7.08	9.54	12.49	14.19	16.08	18.17
		48.9°C	120°F			4.13	6.20	8.54	11.32	12.92	14.69	16.64
		54.4°C	130°F			3.18	5.19	7.43	10.05	11.57	13.22	15.06
		60.0°C	140°F				4.07	6.22	8.71	10.13	11.70	13.42
	Power (kW)	37.8°C	100°F	1.41	1.83	2.21	2.54	2.77	2.90	2.91	2.89	2.83
		43.3°C	110°F		1.77	2.21	2.59	2.90	3.11	3.17	3.19	3.17
		48.9°C	120°F			2.27	2.71	3.08	3.36	3.45	3.51	3.54
		54.4°C	130°F			2.35	2.83	3.26	3.60	3.69	3.82	3.88
		60.0°C	140°F				2.92	3.39	3.78	3.93	4.06	4.15
CR47K6	Capacity (kW)	37.8°C	100°F	2.46	4.91	7.44	9.79	12.69	15.88	17.97	19.81	21.86
		43.3°C	110°F		4.25	6.56	8.88	11.69	14.80	16.59	18.40	20.37
		48.9°C	120°F			5.73	8.09	10.67	13.72	15.18	17.00	18.90
		54.4°C	130°F			5.14	7.30	9.73	12.40	13.92	15.62	17.29
		60.0°C	140°F				6.45	8.67	11.25	12.60	14.21	15.91
	Power (kW)	65.6°C	150°F				5.57	7.80	10.05	11.43	12.90	14.48
		37.8°C	100°F	2.25	2.57	2.95	3.24	3.50	3.73	3.79	3.89	3.99
		43.3°C	110°F		2.59	3.02	3.37	3.68	3.98	4.07	4.18	4.30
		48.9°C	120°F			3.06	3.51	3.88	4.22	4.38	4.50	4.65
		54.4°C	130°F			3.10	3.60	4.05	4.47	4.65	4.82	5.00
CR56K6	Capacity (kW)	60.0°C	140°F				3.66	4.17	4.65	4.89	5.07	5.29
		65.6°C	150°F					4.27	4.86	5.13	5.33	5.60
		37.8°C	100°F	4.26	5.85	8.00	10.66	13.79	17.35	19.28	21.29	23.39
		43.3°C	110°F		5.21	7.23	9.75	12.73	16.11	17.95	19.87	21.87
		48.9°C	120°F			6.48	8.85	11.67	14.88	16.62	18.45	20.35
	Power (kW)	54.4°C	130°F			5.70	7.93	10.58	13.63	15.39	17.01	18.81
		60.0°C	140°F				6.96	9.46	12.32	13.88	15.51	17.22
		65.6°C	150°F					8.26	10.94	12.41	13.94	15.54
		37.8°C	100°F	2.31	2.62	2.98	3.35	3.68	3.95	4.05	4.12	4.16
		43.3°C	110°F		2.66	3.10	3.53	3.92	4.25	4.37	4.46	4.53
CR62K6	Capacity (kW)	48.9°C	120°F			3.17	3.68	4.16	4.55	4.70	4.84	4.92
		54.4°C	130°F			3.19	3.79	4.36	4.83	5.05	5.17	5.30
		60.0°C	140°F				3.80	4.45	5.02	5.26	5.46	5.62
		65.6°C	150°F					4.49	5.10	5.39	5.64	5.85
		37.8°C	100°F	4.70	6.66	9.19	12.29	15.93	20.12	22.41	24.84	27.40
	Power (kW)	43.3°C	110°F		5.96	8.33	11.25	14.71	18.69	20.89	23.21	25.65
		48.9°C	120°F			7.47	10.21	13.47	17.25	19.33	21.53	23.86
		54.4°C	130°F			6.64	9.18	12.24	15.80	17.76	19.85	22.05
		60.0°C	140°F				8.20	11.04	14.36	16.21	18.17	20.25
		65.6°C	150°F				7.27	9.89	12.97	14.69	16.52	18.47

Note: Suction Gas Return 4.4°C

CR Technical Data (1 of 2)

60 Hz Reference

Compressor Model			CR18K6	CR20K6	CR24K6
Horsepower		HP	1.5 HP	1.75 HP	2 HP
Displacement		cm³/rev	34.10	39.40	44.30
Maximum Continuous Current (MCC)	PFV/PFJ	Amps	15	18	18
	TF5			13	
	TFD				
Locked Rotor Ampere	PFV/PFJ	Amps	61	60	60
	TF5			55	
	TFD				
Outline Dimension – PFV / PFJ		Length (mm)	241	241	241
		Width (mm)	231	231	231
		Height (mm)	362	342	342
Outline Dimension – TF5 / TFD		Length (mm)			235
		Width (mm)			229
		Height (mm)			348
Mounting Dimension		Length (mm)	191	191	191
		Width (mm)	191	191	191
Start Capacitor		µF @ V AC	150 / 200 @ 230	150 / 200 @ 230	150 / 200 @ 230
Run Capacitor		µF @ V AC	40 @ 370	36 @ 370	36 @ 370
Oil Type		K6M and KQM - Mineral Oil: K6ME and KQME - POE Oil			
Oil Charge		cm³	1,330	1,330	1,330
Crankcase Heater Power		Watts	40	35	35
Net Weight		Kg	31.50	29.80	29.80
Compressor Per Pallet		Pcs	24 Pcs per Pallet		
Compressor Per 20 Feet Container		Pcs	576 Pcs per 20FT Container		
Compressor Per 20 Feet Container		Pcs	720 Pcs per 40FT Container		

CR Technical Data (2 of 2)

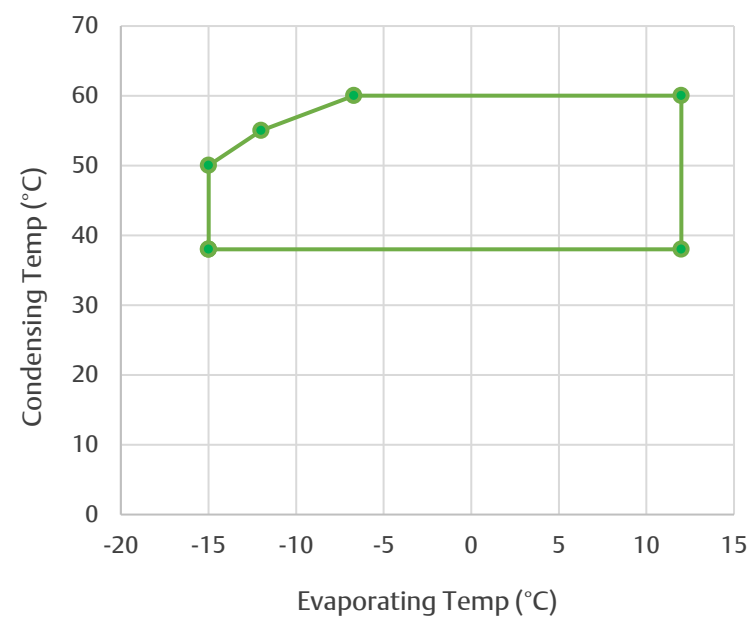
60Hz

CR28K6	CR32K6	CR34K6	CR42K6	CR47KQ	CR53KQ	CR62KQ
2.25 HP	2.5 HP	2.75 HP	3 HP	4 HP	4.5 HP	5 HP
49.70	57.70	59.70	72.10	82.70	88.30	101.90
20	20	30.80	28	28.5	36.50	30.70
		15	22	25.7	28	32.6
		8		11	13.80	16
80	88	88	102	115	155	155
		77	100	125	135	125
		45		60	61	55
241	241	241	263	264	275	275
231	231	231	243	236	257	257
361	342	361	359	365	384	384
		235	262	274	274	274
		231	236	257	257	257
		355	359	365	365	365
191	191	191	191	191	191	191
191	191	191	191	191	191	191
150 / 200 @ 230	150 / 200 @ 230	150 / 200 @ 230	189-227 @ 330	189-227 @ 330	189-227 @ 330	189-227 @ 330
45 @ 370	45 @ 440	45 @ 440	45 @ 440	60 @ 440	60 @ 440	60 @ 440
K6M and KQM - Mineral Oil; K6ME and KQME - POE Oil						
1,330	1,330	1,330	1,330	1,330	1,330	1,330
35	35	35	40	40	40	40
32.50	29.80	31	32.70	36	36.30	37.20
24 Pcs per Pallet						
576 Pcs per 20FT CNT		480 Pcs per 20FT Container				
720 Pcs Per 40FT CNT		648 pcs per 40FT Container				

Standard BOM- KCM

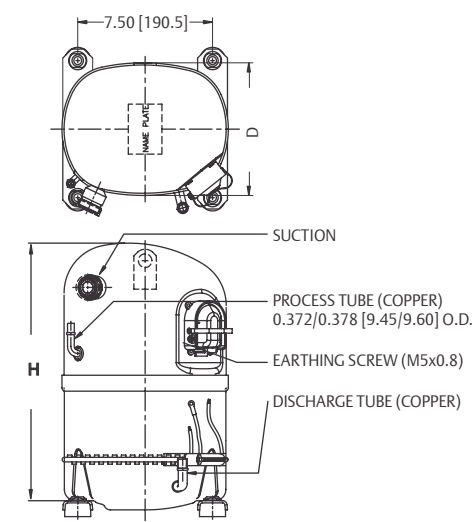
Model	HP	Application	Refrigerant	Capacity (kW)	Hz	Electrical	Crank Case Heater	Start Kit
KCM511CAL-B311H	1.50 HP	MT	R404A	2.70	50 Hz	1Ph 220V/240V	Y	CSCR
KCM511CAL-E511H	1.50 HP	MT	R404A	2.70	50 Hz	3Ph 380/460V	Y	N
KCM514CAL-B311H	2.00 HP	MT	R404A	3.80	50 Hz	1Ph 220V/240V	Y	CSCR
KCM514CAL-E511H	2.00 HP	MT	R404A	3.80	50 Hz	3Ph 380/460V	Y	N
KCM519CAL-B311H	2.50 HP	MT	R404A	4.50	50 Hz	1Ph 220V/240V	Y	CSCR
KCM519CAL-E511H	2.50 HP	MT	R404A	4.50	50 Hz	3Ph 380/460V	Y	N
KCM522CAL-B311H	3.00 HP	MT	R404A	5.30	50 Hz	1Ph 220V/240V	Y	CSCR
KCM522CAL-E511H	3.00 HP	MT	R404A	5.30	50 Hz	3Ph 380/460V	Y	N
KCM530CAL-E511H	4.00 HP	MT	R404A	7.20	50 Hz	3Ph 380/460V	Y	N
KCM536CAL-E511H	4.50 HP	MT	R404A	8.80	50 Hz	3Ph 380/460V	Y	N

Capacity Conditions: Evaporating Temp -6.7°C; Condensing Temp 48.9°C Suction Gas 18.3°C; 50Hz; R404A

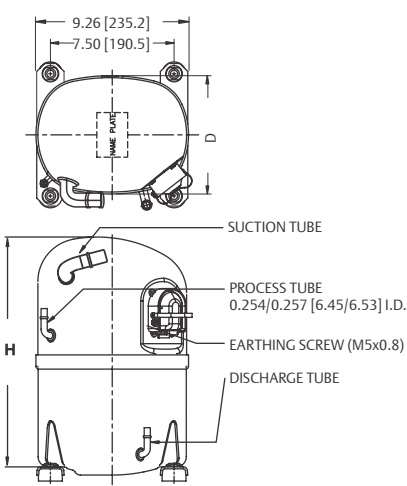


Dimension Drawing - KCM

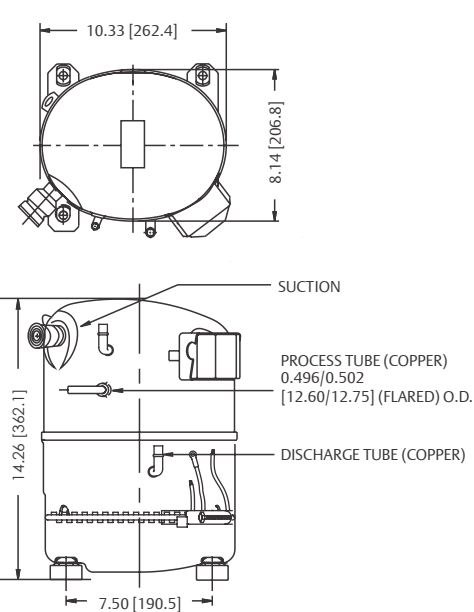
KCM475LAL /KCM511CAL /514CAL with Spud



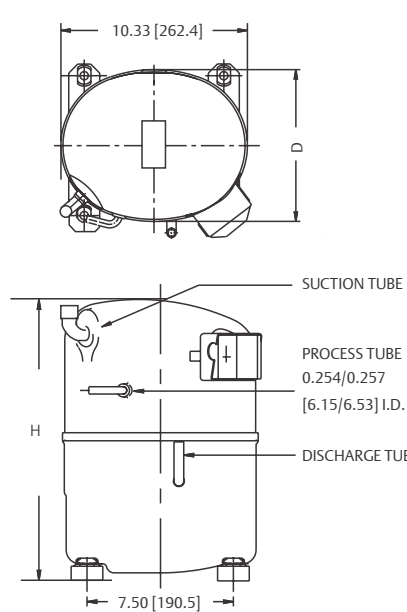
KCM475LAL /KCM511CAL /514CAL with Suction Tube



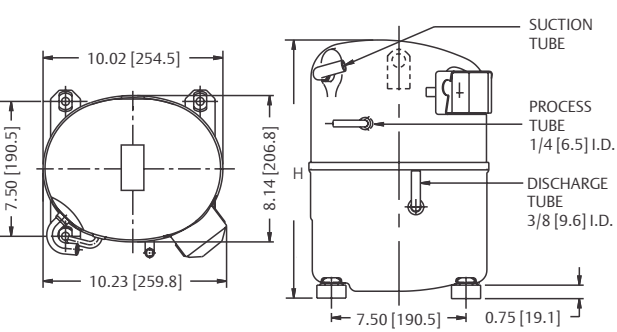
KCM519CAL /522CAL with Spud



KCM522CAL with Suction Tube



KCM519CAL with Suction Tube



Model	Suction Spud	Suction Spud	Discharge Tube	Height, H (mm)	Depth, D (mm)
KCM475CAL	Ø0.625 11/4-12UNF Rolled Threads	5/8"	3/8"	358.2	184.4
KCM511CAL	1.1/412UNF-2A Threads	5/8"	3/8"	339	184.4
KCM514CAL	1.1/412UNF-2A Threads	7/8"	3/8"	358	184.4
KCM519CAL	Ø0.625 11/4-12UNF Rolled Threads	7/8"	3/8"	349.4	206.8
KCM522CAL	Ø0.625 11/4-12UNF Rolled Threads	7/8"	3/8"	362.1	206.8

KCM Performance Data (1 of 2)

R404A 50Hz

Model		Condensing Temp		Evaporating Temp							
				-15.0°C	-12.2°C	-6.7°C	-1.1°C	4.4°C	7.2°C	10.0°C	12.8°C
				5°F	10°F	20°F	30°F	40°F	45°F	50°F	55°F
KCM511CAL	Capacity (kW)	37.8°C	100°F	2.37	2.79	3.73	4.79	5.94	6.54	6.56	7.76
		43.3°C	110°F	1.97	2.34	3.18	4.13	5.16	5.69	6.23	6.77
		48.9°C	120°F	1.60	1.94	2.70	3.56	4.49	4.96	5.44	5.92
		54.4°C	130°F		1.53	2.24	3.03	3.87	4.30	4.73	5.15
		60.0°C	140°F			1.75	2.49	3.27	3.66	4.05	4.43
	Power (kW)	37.8°C	100°F	1.12	1.20	1.35	1.46	1.54	1.56	1.58	1.58
		43.3°C	110°F	1.11	1.21	1.38	1.53	1.65	1.61	1.73	1.75
		48.9°C	120°F	1.08	1.19	1.40	1.57	1.72	1.79	1.84	1.89
		54.4°C	130°F		1.16	1.39	1.60	1.78	1.86	1.93	1.99
		60.0°C	140°F			1.37	1.60	1.81	1.91	2.00	2.08
KCM514CAL	Capacity (kW)	37.8°C	100°F	3.31	3.84	5.01	6.34	7.83	8.64	9.49	10.39
		43.3°C	110°F	2.80	3.29	4.38	5.61	6.98	7.72	8.50	9.32
		48.9°C	120°F	2.32	2.78	3.78	4.90	6.14	6.82	7.52	8.26
		54.4°C	130°F		2.29	3.19	4.19	5.30	5.90	6.52	7.18
		60.0°C	140°F			2.58	3.47	4.43	4.95	5.50	6.07
	Power (kW)	37.8°C	100°F	1.46	1.60	1.81	1.94	2.04	2.08	2.12	2.17
		43.3°C	110°F	1.46	1.62	1.86	2.04	2.18	2.25	2.32	2.40
		48.9°C	120°F	1.47	1.63	1.90	2.11	2.29	2.38	2.47	2.56
		54.4°C	130°F		1.64	1.92	2.15	2.35	2.46	2.56	2.67
		60.0°C	140°F			1.94	2.17	2.38	2.49	2.61	2.73
KCM519CAL	Capacity (kW)	37.8°C	100°F	3.97	4.68	6.15	7.76	9.60	10.64	11.76	12.98
		43.3°C	110°F	3.44	4.07	5.37	6.82	8.51	9.46	10.50	11.65
		48.9°C	120°F	2.89	3.43	4.55	5.83	7.34	8.21	9.17	10.23
		54.4°C	130°F		2.81	3.75	4.83	6.16	6.94	7.80	8.77
		60.0°C	140°F			3.01	3.90	5.03	5.70	6.48	7.35
	Power (kW)	37.8°C	100°F	1.80	1.95	2.18	2.34	2.45	2.51	2.56	2.61
		43.3°C	110°F	1.83	2.00	2.25	2.45	2.62	2.70	2.78	2.86
		48.9°C	120°F	1.82	1.99	2.27	2.51	2.71	2.82	2.92	3.04
		54.4°C	130°F		1.97	2.27	2.53	2.78	2.90	3.04	3.18
		60.0°C	140°F			2.29	2.57	2.85	3.00	3.15	3.32

Note: Suction Gas Return 4.4°C

KCM Performance Data (2 of 2)

R404A 50Hz

Model		Condensing Temp		Evaporating Temp							
				-15.0°C	-12.2°C	-6.7°C	-1.1°C	4.4°C	7.2°C	10.0°C	12.8°C
				5°F	10°F	20°F	30°F	40°F	45°F	50°F	55°F
KCM522CAL	Capacity (kW)	37.8°C	100°F	4.67	5.38	7.00	8.88	11.06	12.26	13.55	14.93
		43.3°C	110°F	3.97	4.63	6.11	7.83	9.83	10.93	12.12	13.38
		48.9°C	120°F	3.32	3.91	5.24	6.80	8.60	9.60	10.67	11.82
		54.4°C	130°F		3.20	4.37	5.75	7.35	8.24	9.19	10.22
		60.0°C	140°F			3.46	4.65	6.03	6.80	7.64	8.53
	Power (kW)	37.8°C	100°F	2.04	2.14	2.35	2.55	2.72	2.80	2.85	2.89
		43.3°C	110°F	2.07	2.20	2.46	2.71	2.93	3.02	3.10	3.16
		48.9°C	120°F	2.05	2.21	2.53	2.84	3.11	3.23	3.33	3.41
		54.4°C	130°F		2.16	2.56	2.93	3.26	3.41	3.54	3.64
		60.0°C	140°F			2.54	2.98	3.39	3.56	3.73	3.87
KCM530CAL	Capacity (kW)	37.8°C	100°F	6.30	7.30	9.46	11.86	14.56	16.04	17.62	19.30
		43.3°C	110°F	5.33	6.27	8.29	10.54	13.06	14.45	15.92	17.50
		48.9°C	120°F	4.54	5.40	7.23	9.27	11.57	12.84	14.19	15.64
		54.4°C	130°F		4.56	6.16	7.95	9.98	11.11	12.31	13.61
		60.0°C	140°F			4.96	6.45	8.17	9.13	10.16	11.29
	Power (kW)	37.8°C	100°F	2.79	3.01	3.37	3.62	3.8	3.86	3.92	3.97
		43.3°C	110°F	2.79	3.03	3.45	3.78	4.04	4.16	4.27	4.38
		48.9°C	120°F	2.84	3.10	3.56	3.95	4.29	4.44	4.60	4.75
		54.4°C	130°F		3.17	3.66	4.08	4.47	4.66	4.85	5.04
		60.0°C	140°F			3.68	4.12	4.55	4.76	4.98	5.20
KCM536CAL	Capacity (kW)	37.8°C	100°F	7.6	8.77	11.35	14.28	17.59	19.39	21.3	23.32
		43.3°C	110°F	6.6	7.66	10.01	12.71	15.77	17.45	19.23	21.12
		48.9°C	120°F	5.68	6.62	8.72	11.16	13.95	15.49	17.14	18.88
		54.4°C	130°F		5.57	7.40	9.55	12.05	13.45	14.94	16.53
		60.0°C	140°F			5.97	7.81	10.00	11.23	12.56	13.99
	Power (kW)	37.8°C	100°F	3.28	3.55	3.98	4.27	4.48	4.56	4.63	4.69
		43.3°C	110°F	3.28	3.58	4.07	4.45	4.76	4.90	5.03	5.17
		48.9°C	120°F	3.35	3.66	4.19	4.64	5.04	5.24	5.43	5.63
		54.4°C	130°F		3.74	4.31	4.81	5.28	5.51	5.75	6.00
		60.0°C	140°F			4.34	4.87	5.40	5.67	5.95	6.25

Note: Suction Gas Return 4.4°C

50 Hz Reference

Compressor Model		KCM511CAL	KCM514CAL
Horsepower		HP	1.5 HP2 HP
Displacement		cm³/rev	40.8051.50
Maximum Continuous Current	1Ph, 220V	Amps	13.5017.80
	3Ph, 380V		5.106.10
Locked Rotor Ampere	1Ph, 220V	Amps	56.5077
	3Ph, 380V		27.5028
Outline Dimension-1Ph, 220V		Length (mm)	241
		Width (mm)	228231
		Height (mm)	342362
Outline Dimension-3Ph, 380V		Length (mm)	235241
		Width (mm)	229231
		Height (mm)	348362
Mounting Dimension		Length (mm)	191
		Width (mm)	191
Start Capacitor		µF @ V AC	150-200 @ 230150-200 @ 230
Run Capacitor		µF @ V AC	36 @ 44045 @ 440
Oil Type		POE Oil	
Oil Charge		cm³	1,3301,330
Crankcase Heater Power		Watts	3535
Net Weight		Kg	29.8032.50
Compressor Per Pallet		Pcs	24 Pcs Per Pallet
Compressor Per 20 Feet Container		Pcs	576 Pcs Per 20FT Container
Compressor Per 20 Feet Container		Pcs	720 Pcs Per 40FT Container

KCM519CAL	KCM522CAL	KCM530CAL	KCM536CAL
2.5 HP	3 HP	4 HP	5 HP
59.70	72.10	88.30	101.90
17	19		
7.30	8.00	13.80	16.00
85	104		
41	45	61	65
260	262		
238	236		
352	365		
263	263	274	274
235	242	257	257
346	359	365	365
191	191	191	191
191	191	191	191
150-200 @ 230	150-200 @ 230		
45 @ 440	60 @ 440		
KQ- Mineral Oil; KQE - POE Oil			
1,330	1,330	1,330	1,330
40	40	40	40
34.90	34.90	36.20	36.20
24 Pcs Per Pallet			
576 Pcs	480 Pcs Per 20FT Container		
720 Pcs	648 Pcs Per 40FT Container		

Wiring Diagrams

Permanent Split Capacitor (PSC)

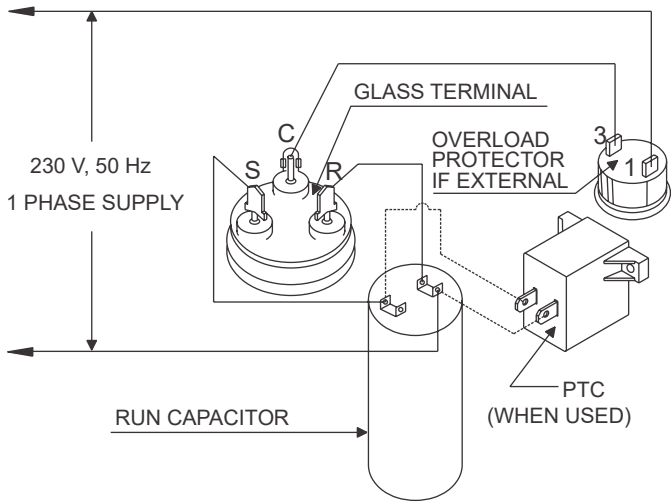


Fig. 1

Capacitor Start Induction Run (CSIR) with Plug-in Start Relay

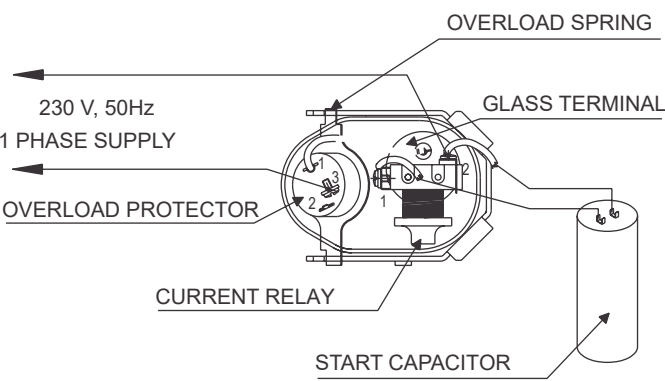


Fig. 2

Capacitor Start Induction Run (CSIR)

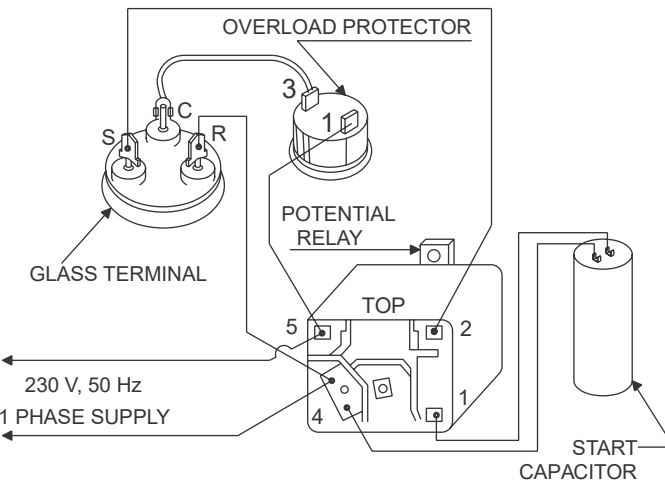


Fig. 5

Capacitor Start Induction Run (CSIR) with Current Relay

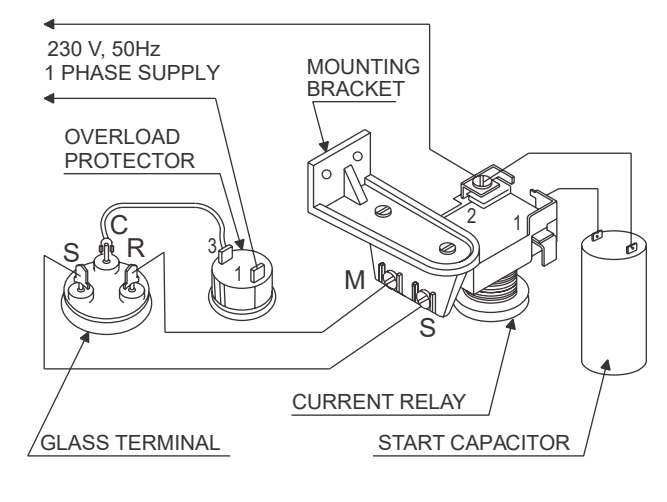


Fig. 6

Resistance Start Induction Run (RSIR) with Plug-in Start Relay

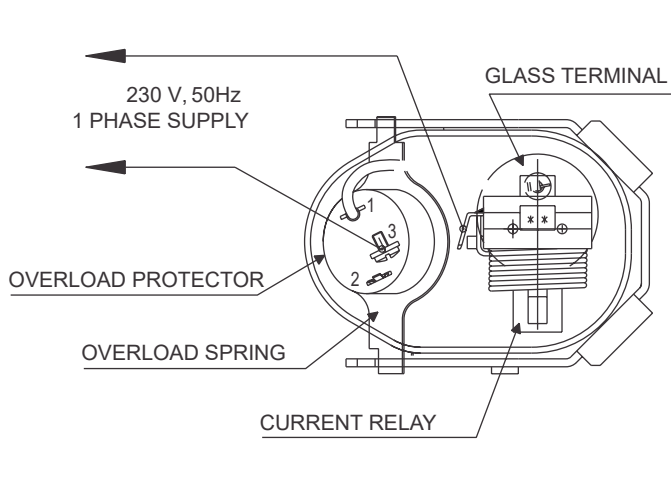


Fig. 3

Capacitor Start Capacitor Run (CSCR)

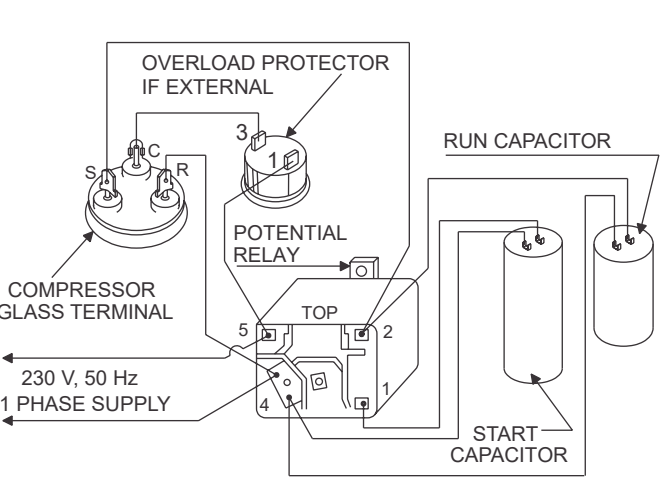


Fig. 4

Capacitor Start Capacitor Run (CSCR) with PTC

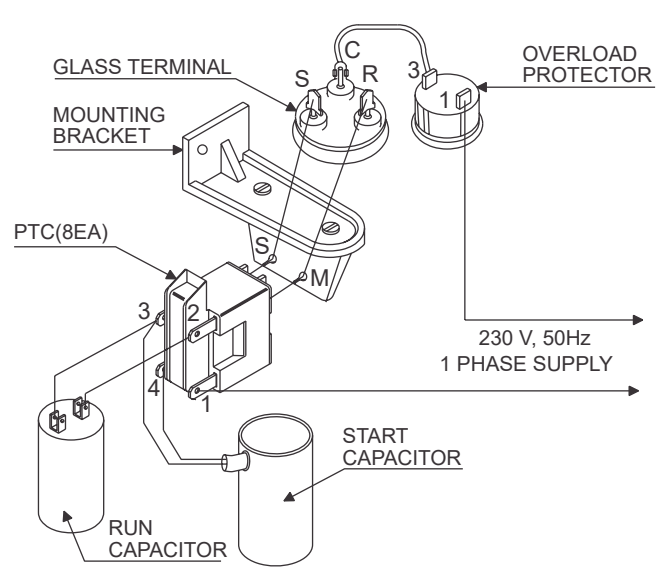


Fig. 7

Capacitor Start Capacitor Run (CSCR) with NTC

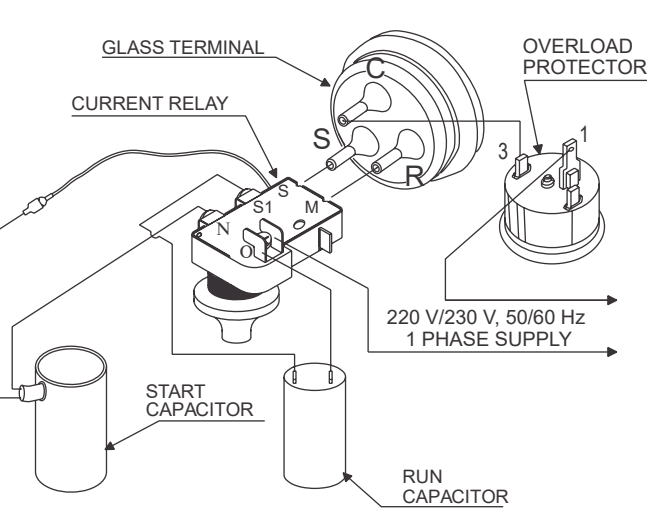


Fig. 8

System Practice Guide

System Cleanliness

- It is absolutely necessary that all impurities / contamination like moisture, burr, cleaning agent and chemicals are removed from the system before operation in order to avoid compressor failures.
- All system components have to be de-hydrated and should be Nitrogen charged till they are taken for assembly. Use bright annealed refrigeration grade Copper tubes.
- Use Try-chloro Ethylene for flushing followed by dry air or Nitrogen to remove the trace of Try-chloro Ethylene.

Brazing

- While brazing all the joints purge low pressure Nitrogen through the tube. This will avoid internal oxidation and formation of contamination. Use adequate amount of flux while brazing.
- The joints have to be free from oil and grease before brazing. For Copper to Copper joints use phosphorous Copper as brazing alloy and Copper - Silver for Copper to Steel joints. Oxy Acetylene is best suited for brazing.

Leak Testing

- The system has to be adequately pressurized with dry air or Nitrogen.
- Use of electronic leak detectors is the best way to detect leaks.
- Conventional methods of checking the leaks can also be used.
- Do not pressurize the system with air and R134a.

Evacuation

Effective evacuation of the system ensures removal of moisture.

For achieving desired vacuum level of 200 microns:

- Pull vacuum from both sides
- Heat the system with bulbs or infra red lamps
- Use Copper tubes to connect the vacuum pump and the system
- The connecting Copper tubes have to be short in length and bigger in diameter
- Use adequately sized two stage rotary vacuum pump having anti-suckback provision
- Use electronic vacuum gauge to measure the vacuum level
- Never use a hermetic compressor for evacuation. It is not meant for evacuation and cannot achieve desired vacuum level

Refrigerant Charging

- Quality and quantity of refrigerant immensely influences the performance and reliability of any refrigeration system.
- Refrigerant should be procured from genuine source. Use digital weigh balance during refrigerant charging.
- Maintain a separate set of hoses, tubes, valves for different refrigerants. Do not use anti-choke as it damages the compressor.
- Use pressure temperature chart of refrigerant for achieving optimum system performance.

Compressor Mounting

- Torque the nut adequately and ensure that the washer / bolt head rest on the sleeve and not on the rubber grommet.
- The suction and discharge piping should be properly looped to avoid vibrations and refrigerant leakages. The compressor should not be held rigidly by any means.
- These compressors are not suitable for mobile applications.

Electricals

- Always check the voltage across C & R terminals. Voltage at this point should fall within the prescribed operating voltage range. If the supply voltage conditions are poor, use appropriately sized voltage stabilizer with low, high voltage cutout and On-delay timer.
- Always use genuine electrical accessories supplied by Emerson.
- Earthing the appliance is necessary from the safety stand point.
- All electrical joints have to be firm and properly insulated.

Attending The Field Complaints

- Verify the field complaint based on facts and observations made through use of proper tools and equipment. Rule out all the possibilities before replacing the compressor. Analyze the compressor independently for its proper functioning.
- Removing of compressor from the system without understanding the root cause will lead to another compressor failure.

Disclaimer

Technical data given was correct at the time of printing. Updates may occur, and should you need confirmation of a specific value, please contact Emerson stating clearly the information required. Emerson cannot be held responsible for errors in capacities, dimensions, etc., stated herein. Products, specifications and data in this literature are subject to change without notice. The information given herein is based on data and tests which Emerson believes to be reliable and which are in accordance with today's technical knowledge. It is intended for use by persons having the appropriate technical knowledge and skill, at their own discretion and risk. Our products are designed and adapted for fixed locations. For mobile applications, failures may occur. The suitability for this has to be assured from the plant manufacturer, which may include making appropriate tests.

Note

The components listed in this catalogue are not released for use with caustic, poisonous or flammable substances. Emerson cannot be held responsible for any damage caused by using these substances.

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