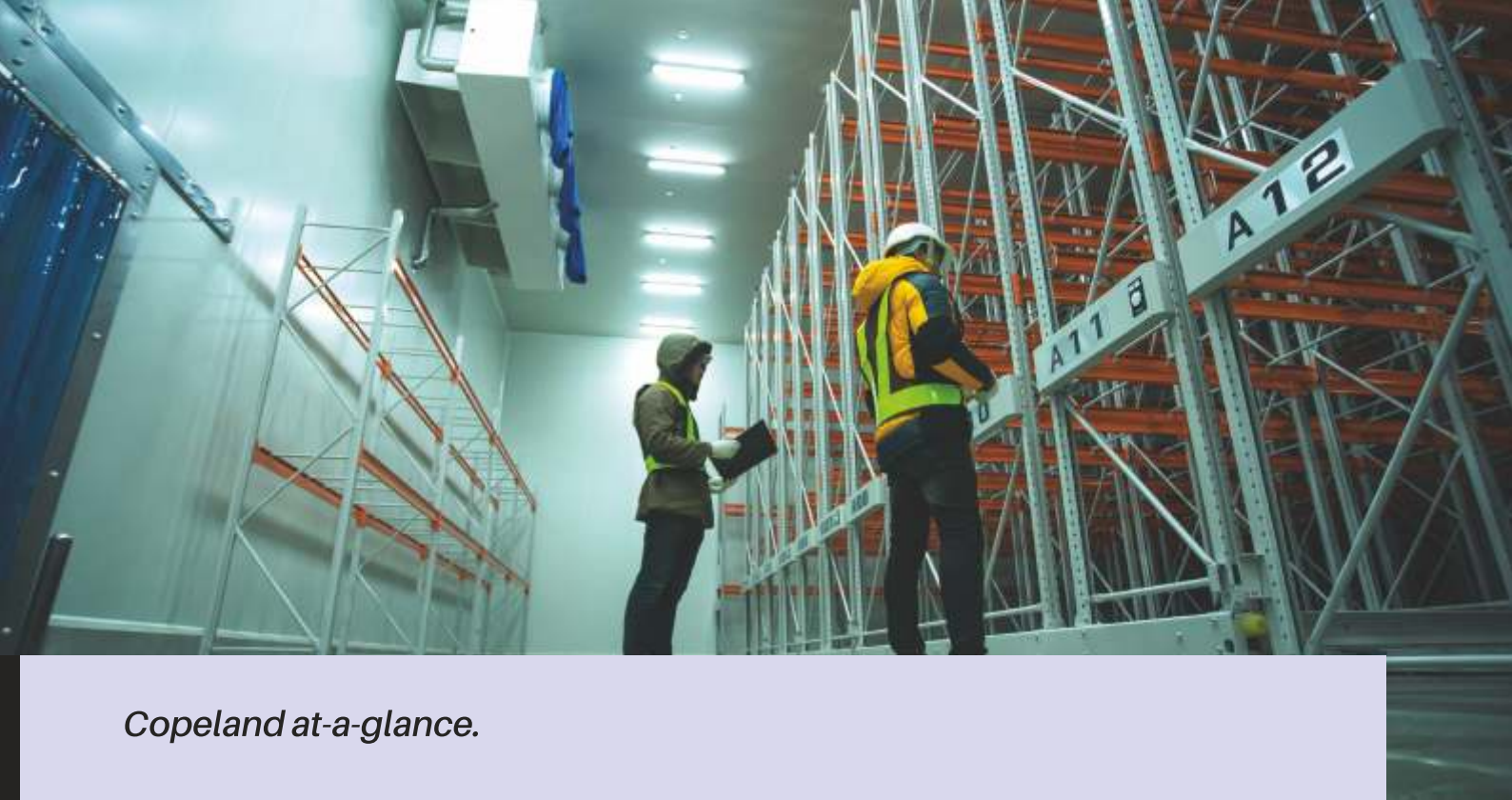


Hermetic Reciprocating Compressors For Refrigeration Applications





Copeland at-a-glance.

About Copeland

Copeland, a global provider of sustainable climate solutions, combines category-leading brands in compression, controls, software, and monitoring for heating, cooling, and refrigeration. With best-in-class engineering and design and the broadest portfolio of modulated solutions, we're not just setting the standard for compressor leadership; we're pioneering its evolution.

Our technology integrates seamlessly with our smart energy management solutions, enabling us to regulate, track, and optimize conditions to safeguard temperature-sensitive goods over land and sea while ensuring comfort in any environment. Our commitment to quality is demonstrated through rigorous testing in India, where our state-of-the-art facility in Atit, Maharashtra, validates the performance of our products in ambient conditions of up to 46°C.

Through energy-efficient products, regulation-ready solutions, and our expertise, we're revolutionizing the next generation of climate technology for the better.



Psychrometric Lab Facility at Karad, India



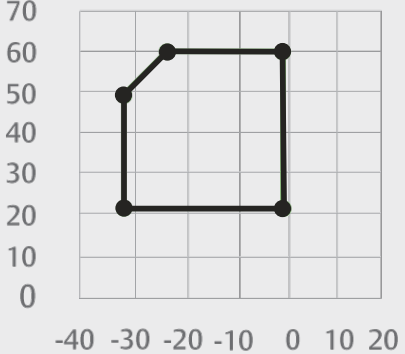
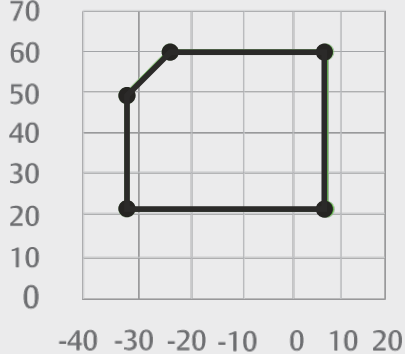


Manufacturing Plant at Atit, India

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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)

Compressor Cross Reference Table

50 Hz Reference

| HP | CSK6 | Capacity kW | CSK7 | Capacity kW |
|------|--------|-------------|--------|-------------|
| 1 | | | | |
| 1.5 | CS10K6 | 2.48 | CS10K7 | 2.49 |
| 1.75 | | | | |
| 2 | CS13K6 | 3.40 | CS13K7 | 3.42 |
| 2.5 | CS17K6 | 4.11 | CS17K7 | 4.11 |
| 3 | CS20K6 | 4.72 | CS20K7 | 4.72 |
| 3.5 | CS24K6 | 5.40 | CS24K7 | 6.21 |
| 4 | CS27K6 | 6.51 | CS27K7 | 7.29 |
| 4.5 | CS30K6 | 7.14 | CS30K7 | 8.43 |
| 5 | 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 | CSK6 | Capacity kW | CSK7 | Capacity kW |
|------|--------|-------------|--------|-------------|
| 1 | | | | |
| 1.5 | CS10K6 | 2.87 | CS20K7 | 3.31 |
| 1.75 | | | | |
| 2 | CS12K6 | 3.52 | CS24K7 | 4.01 |
| 2.5 | CS14K6 | 4.13 | | |
| 2.75 | CS18K6 | 5.16 | | |
| 3 | CS20K6 | 5.71 | CS37K6 | 6.25 |
| 3.25 | CS24K6 | 6.55 | | |
| 3.5 | CS27K6 | 6.71 | | |
| 3.75 | | | | |
| 4 | CS30K6 | 8.19 | CS47K7 | 8.18 |
| 4.5 | CS33K6 | 9.17 | | |
| 5 | | | 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

C-Series Nomenclature

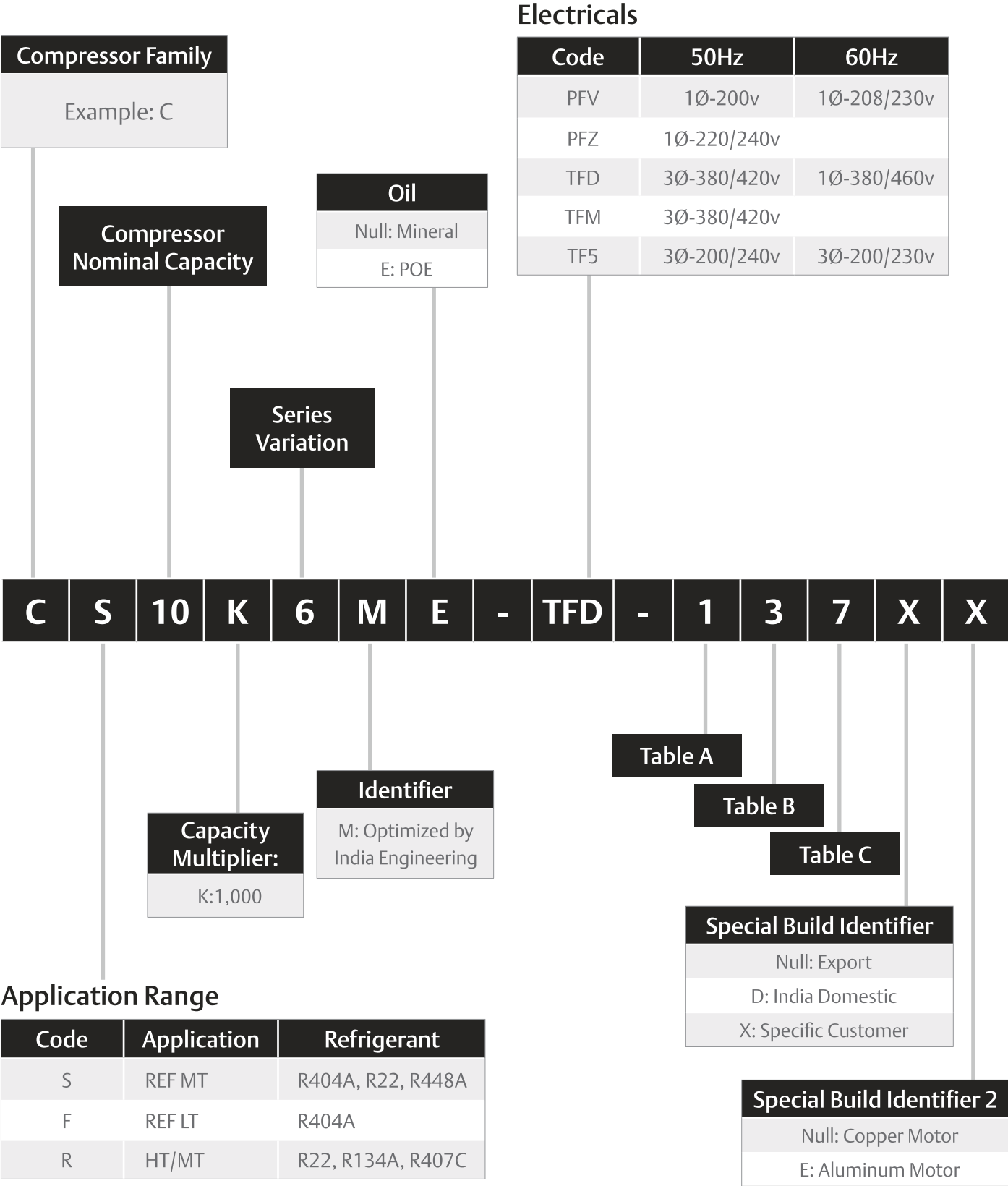


Table A: Base Configuration

| | 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 | | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

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 | -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 | 1.24 | 1.78 | 2.12 | 2.51 | 2.95 | 3.44 | 3.98 | 4.57 | 5.22 | 5.93 | 6.69 |
| | | 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 | 5.98 |
| | | 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 | 5.28 |
| | | 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 | 4.59 |
| | | 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 | 3.91 |
| | | 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 | 3.27 |
| | | 54.4°C | 130°F | | 0.38 | 0.55 | 0.74 | 0.95 | 1.18 | 1.43 | 1.70 | 2.00 | 2.32 | 2.67 |
| | | 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 | 1.17 |
| | | 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 | 1.23 |
| | | 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 | 1.30 |
| | | 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 | 1.37 |
| | | 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 | 1.44 |
| | | 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 | 1.51 |
| | | 54.4°C | 130°F | | 0.88 | 0.97 | 1.05 | 1.13 | 1.20 | 1.28 | 1.35 | 1.42 | 1.49 | 1.56 |
| | | 60.0°C | 140°F | | | 0.97 | 1.05 | 1.13 | 1.21 | 1.29 | 1.37 | 1.44 | 1.52 | 1.60 |
| 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 | 7.28 |
| | | 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 | 6.51 |
| | | 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 | 5.75 |
| | | 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 | 4.99 |
| | | 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 | 4.26 |
| | | 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 | 3.56 |
| | | 54.4°C | 130°F | | 0.41 | 0.60 | 0.80 | 1.03 | 1.28 | 1.55 | 1.85 | 2.18 | 2.53 | 2.91 |
| | | 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 | 1.26 |
| | | 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 | 1.32 |
| | | 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 | 1.39 |
| | | 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 | 1.47 |
| | | 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 | 1.54 |
| | | 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 | 1.61 |
| | | 54.4°C | 130°F | | 0.93 | 1.02 | 1.10 | 1.19 | 1.28 | 1.36 | 1.44 | 1.52 | 1.59 | 1.67 |
| | | 60.0°C | 140°F | | | 1.02 | 1.11 | 1.20 | 1.28 | 1.37 | 1.45 | 1.54 | 1.63 | 1.71 |
| 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 | 8.34 |
| | | 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 | 7.52 |
| | | 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 | 6.71 |
| | | 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 | 5.91 |
| | | 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 | 5.13 |
| | | 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 | 4.36 |
| | | 54.4°C | 130°F | | 0.73 | 0.96 | 1.20 | 1.47 | 1.76 | 2.08 | 2.42 | 2.79 | 3.18 | 3.61 |
| | | 60.0°C | 140°F | | | 0.72 | 0.92 | 1.14 | 1.38 | 1.63 | 1.91 | 2.21 | 2.53 | 2.87 |
| | 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 | 1.54 |
| | | 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 | 1.63 |
| | | 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 | 1.71 |
| | | 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 | 1.80 |
| | | 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 | 1.89 |
| | | 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 | 1.97 |
| | | 54.4°C | 130°F | | 1.14 | 1.25 | 1.36 | 1.46 | 1.57 | 1.67 | 1.77 | 1.86 | 1.95 | 2.05 |
| | | 60.0°C | 140°F | | | 1.25 | 1.36 | 1.47 | 1.57 | 1.68 | 1.79 | 1.89 | 2.00 | 2.10 |

Note: Suction Gas Return 4.4°C

CSK6 Performance Data (2 of 3)

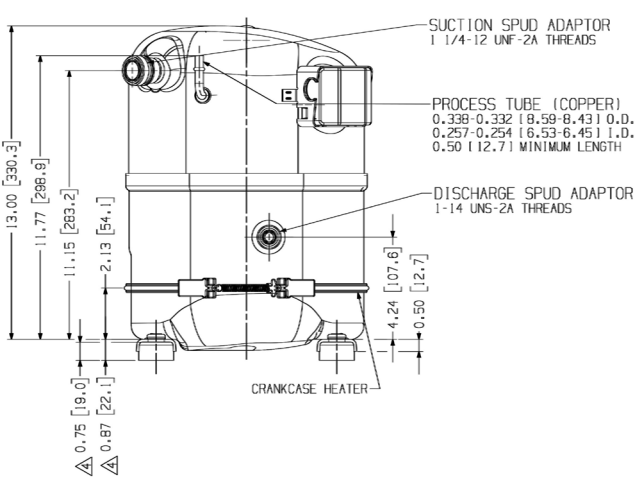
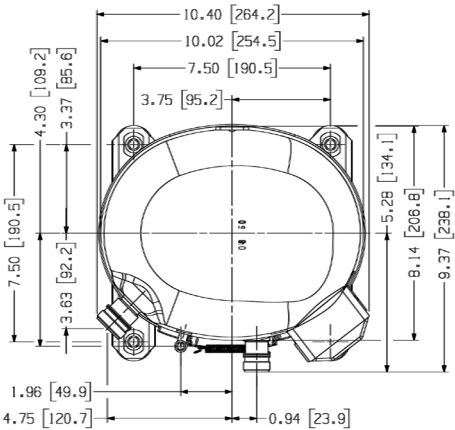
R404A 50Hz

| 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 |

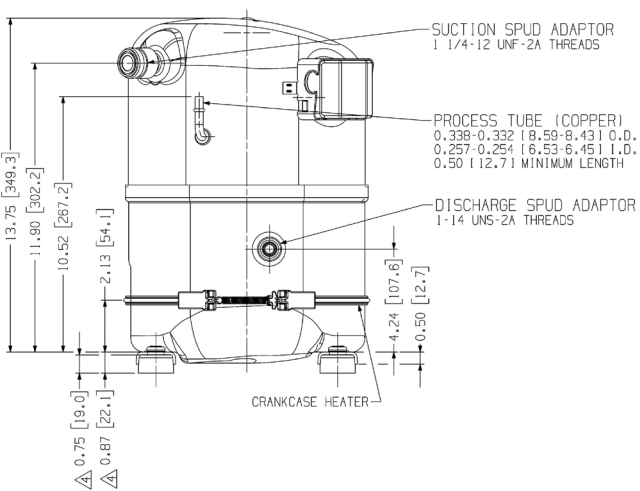
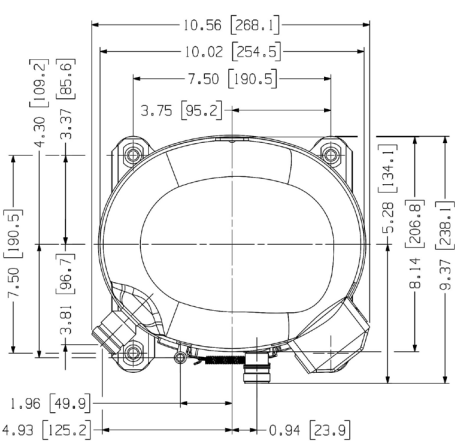
| Model | | Condensing Temp | | Evaporating Temp | | | | | | | | | | |
|--------------------|------------------|-----------------|-------|------------------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| | | | | -31.7°C | -26.1°C | -23.3°C | -20.6°C | -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 |
| | Power (kW) | 60.0°C | 140°F | | | 1.41 | 1.76 | 2.16 | 2.61 | 3.12 | 3.69 | 4.30 | 4.96 | 5.67 |
| | | 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 |
| CS30K6 (4.5 HP) | Capacity (kW) | 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 |
| | | 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 |
| | Power (kW) | 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 |
| | | 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 |
| CS33K6 (5 HP) | Capacity (kW) | 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 |
| | | 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 |
| | Power (kW) | 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 |
| | | 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 |

Note: Suction Gas Return 4.4°C

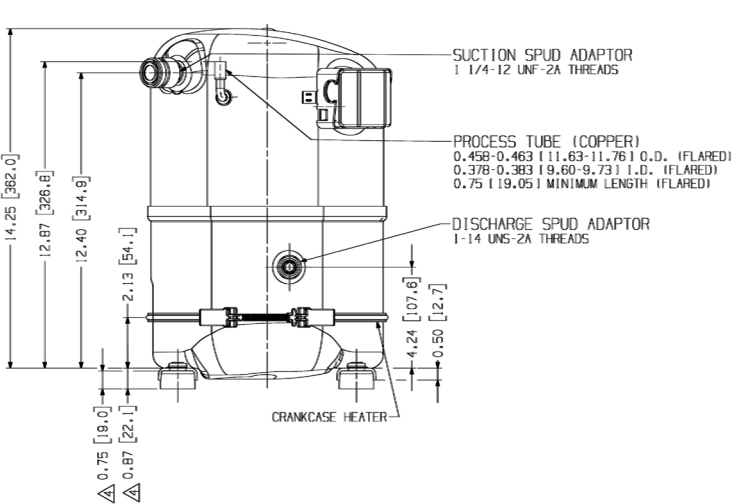
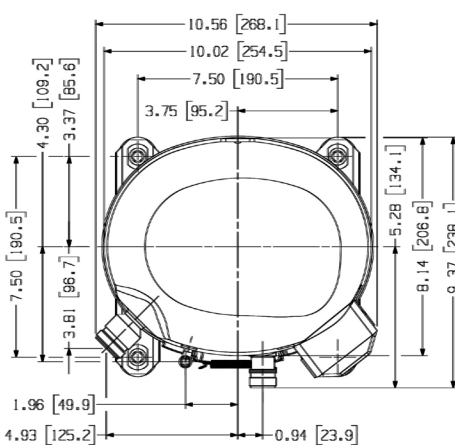
CS10 , CS11 PFZ



CS10 , CS11 PFZ



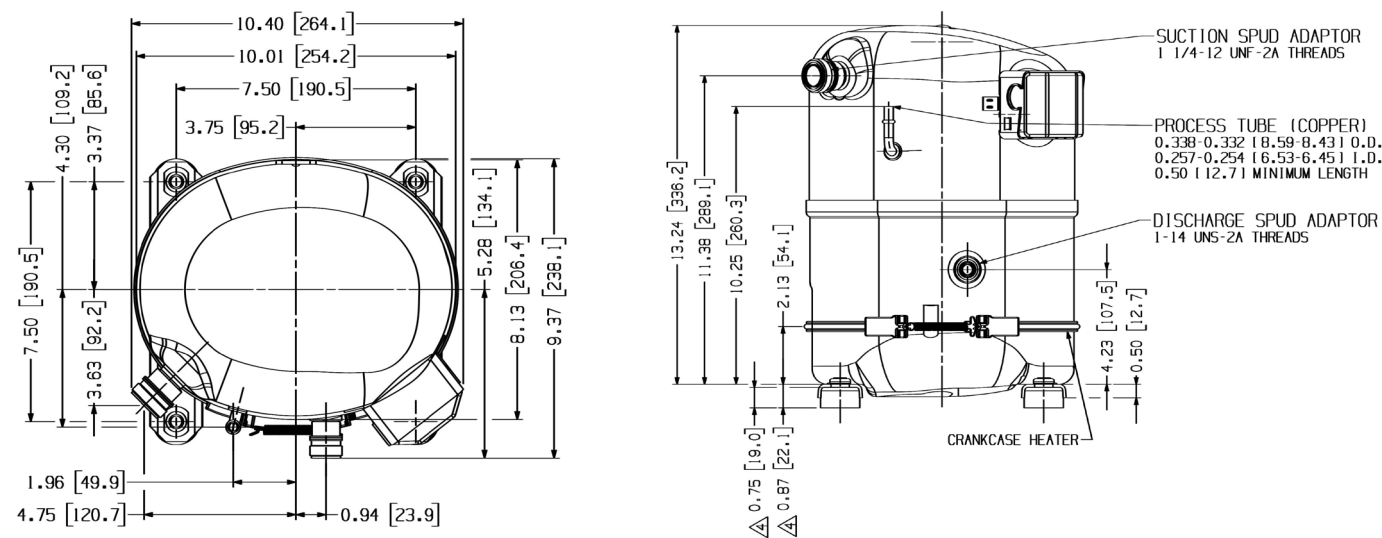
CS20 PFZ



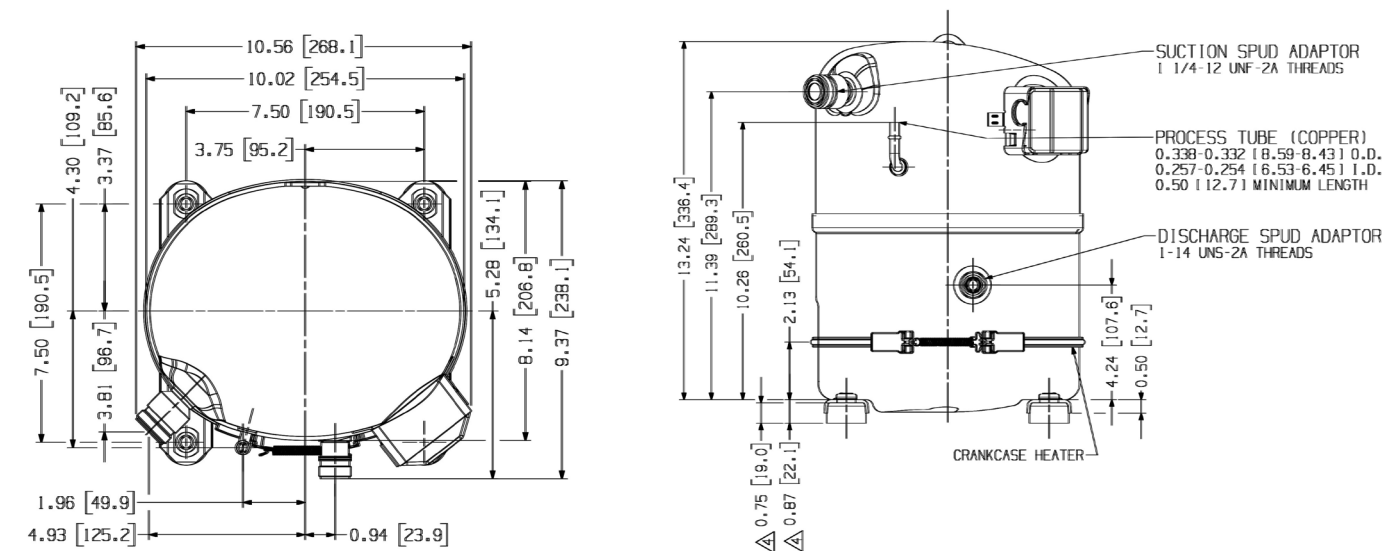
CSK6 Dimension Drawing – TFM/TFD

50Hz

CS10 , CS11 TFM



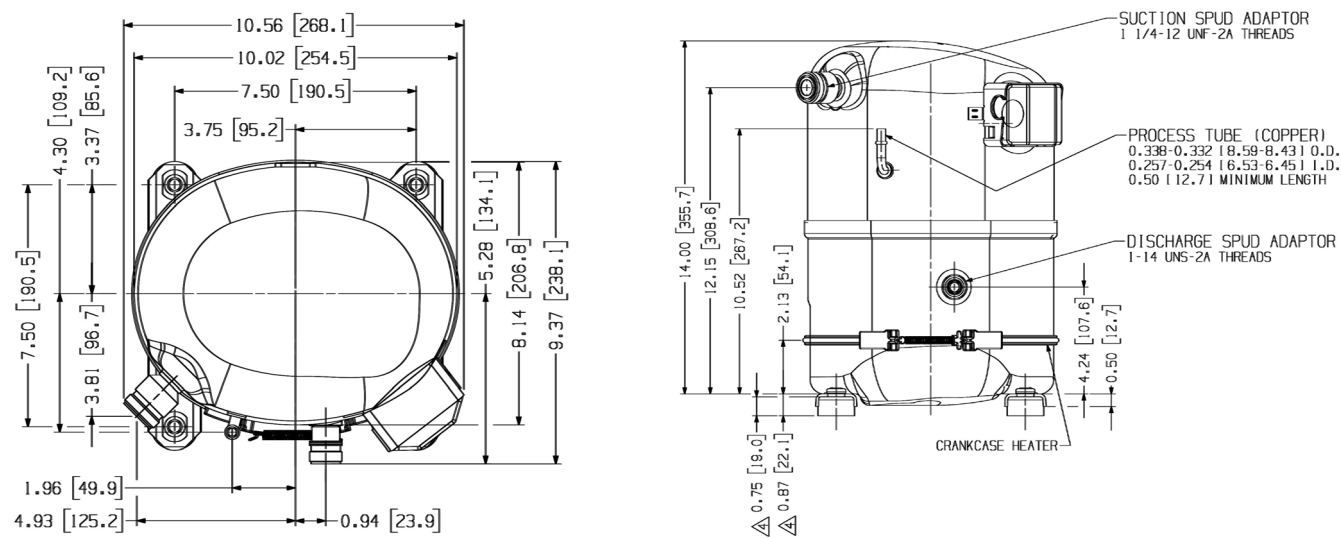
CS13, CS17, TFM



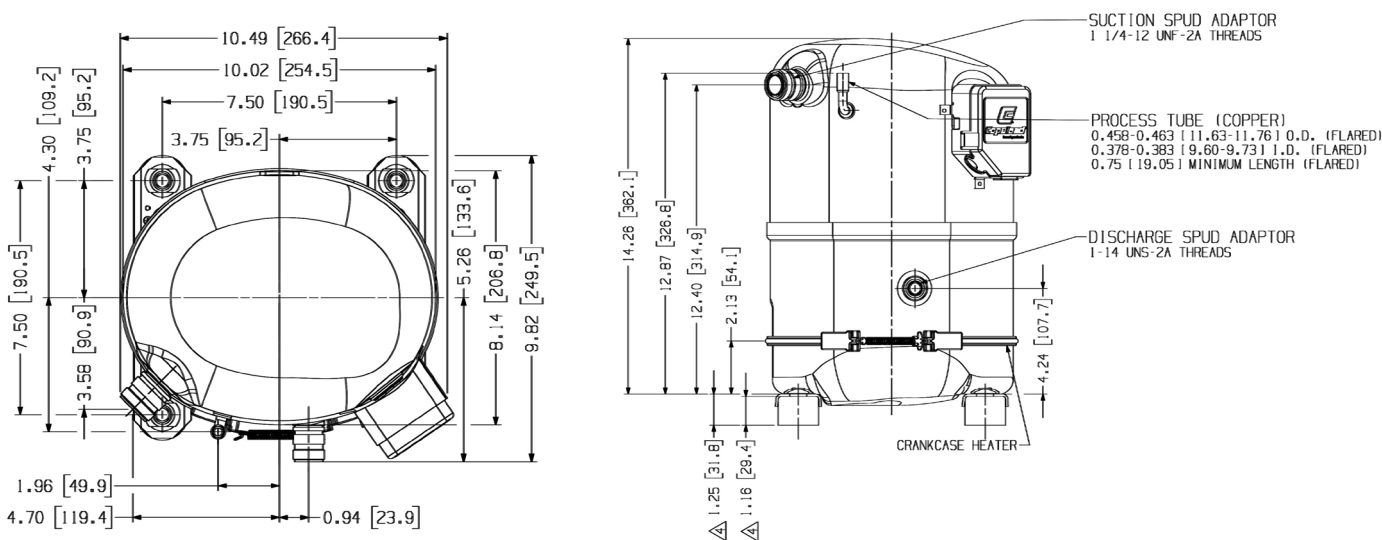
CSK6 Dimension Drawing – TFM/TFD

50Hz

CS20 TFM



CS24, CS27, CS30, CS33 TFD



CSK6 Technical Data (1 of 2)

50 Hz Reference

| Compressor Model | | CS10K6 | CS13K6 |
|----------------------------------|--------------------------------|---------------------------|-----------------|
| Horsepower | | 1.5 HP | 2 HP |
| Displacement | | 40.80 | 51.45 |
| Maximum Continuous Current (MCC) | PFZ | Amps | 13.50 |
| | TFM/TFD | | 17.80 |
| Locked Rotor Ampere | PFZ | Amps | 54 |
| | TFM/TFD | | 78 |
| Outline Dimension - PFZ | | Length (mm) | 264 |
| | | Width (mm) | 238 |
| | | Height (mm) | 333 |
| Outline Dimension - TFM | | Length (mm) | 264 |
| | | Width (mm) | 238 |
| | | Height (mm) | 339 |
| Mounting Dimension | | Length (mm) | 191 |
| | | Width (mm) | 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 | cm ³ | 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 | | | | | |

CSK6 Performance Data (1 of 3)

R404A 60Hz

| 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

CSK6 Performance Data (2 of 3)

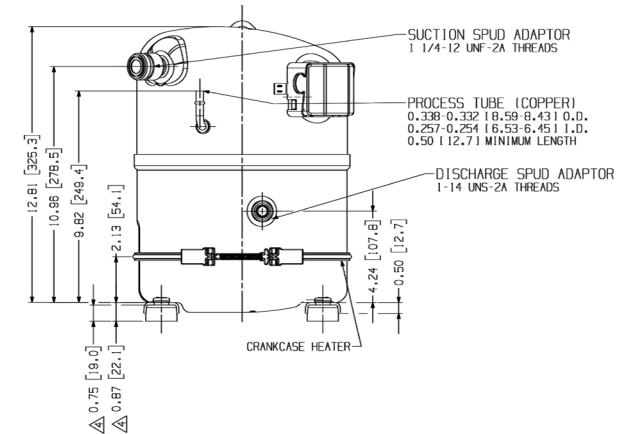
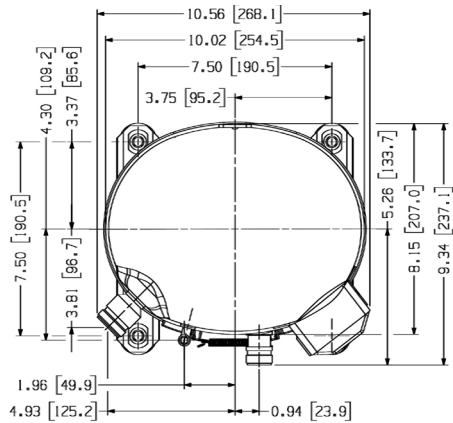
R404A 60Hz

| 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 |

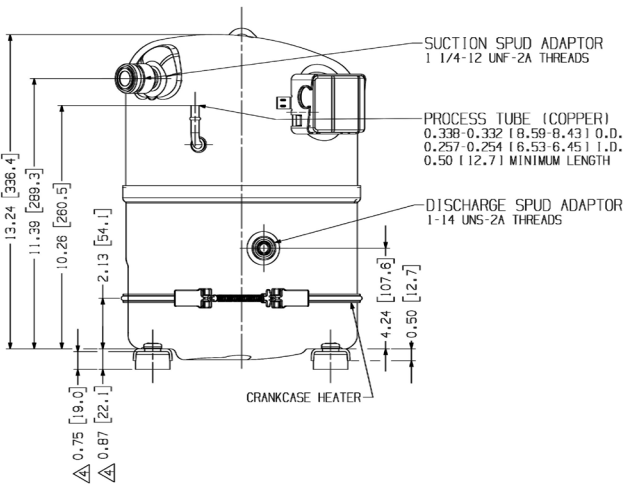
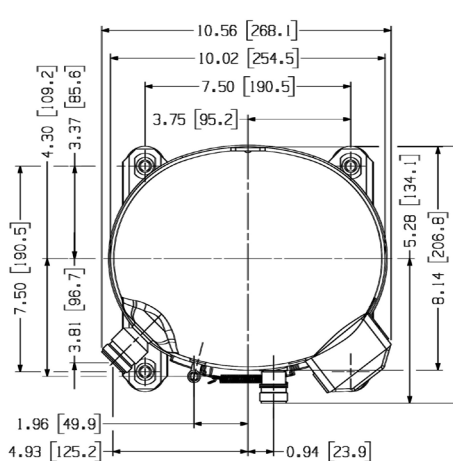
| Model | | Condensing Temp | | Evaporating Temp | | | | | | | | | | |
|--------------------|------------------|-----------------|-------|------------------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| | | | | -31.7°C | -26.1°C | -23.3°C | -20.6°C | -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 |
| | Power (kW) | 60.0°C | 140°F | | | 1.57 | 1.89 | 2.27 | 2.70 | 3.20 | 3.76 | 4.37 | 5.07 | 5.87 |
| | | 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 |
| CS30K6 (4 HP) | Capacity (kW) | 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 |
| | | 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 |
| | Power (kW) | 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 |
| | | 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 |
| CS33K6 (4.5 HP) | Capacity (kW) | 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 |
| | | 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 |
| | Power (kW) | 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 |
| | | 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 |

Note: Suction Gas Return 4.4°C

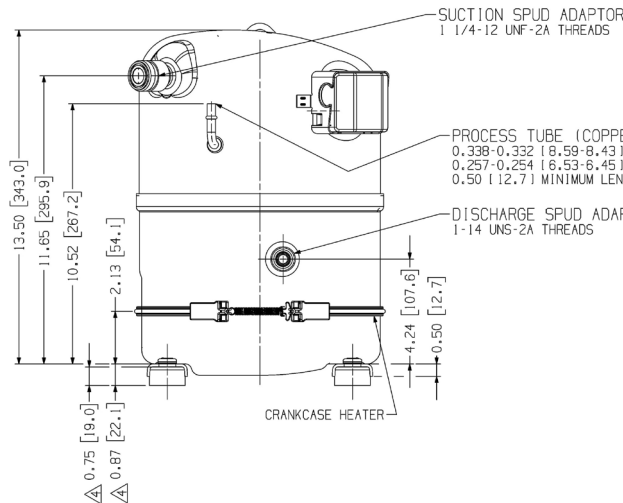
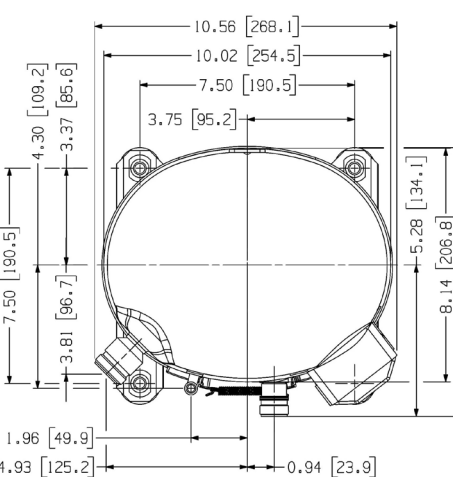
CS10, CS12, CS14 TF5



CS18 TF5



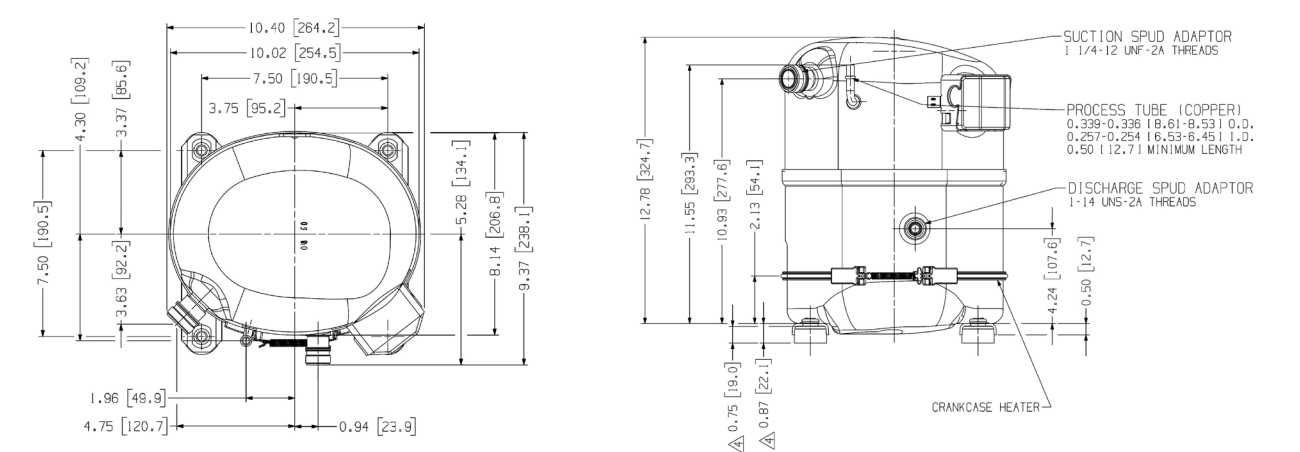
CS20 TF5



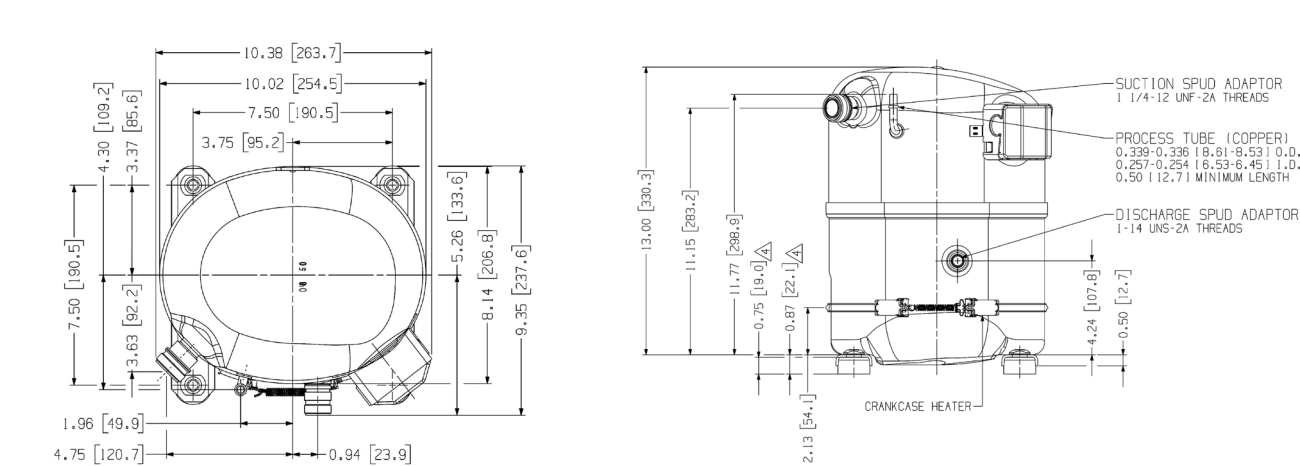
CSK6 Dimension Drawing – PFV

60Hz

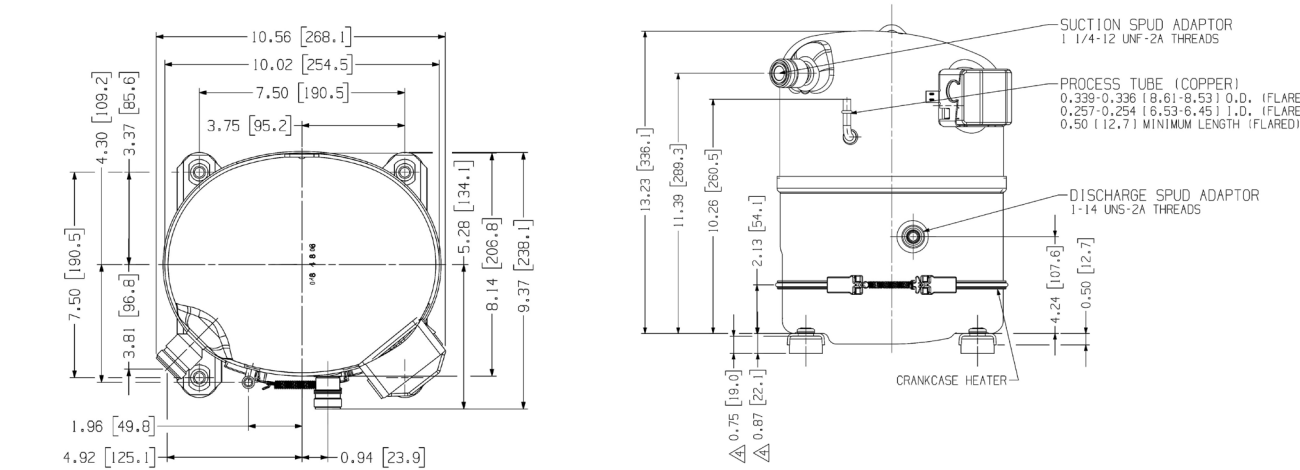
CS10, CS12 PFV



CS14 PFV



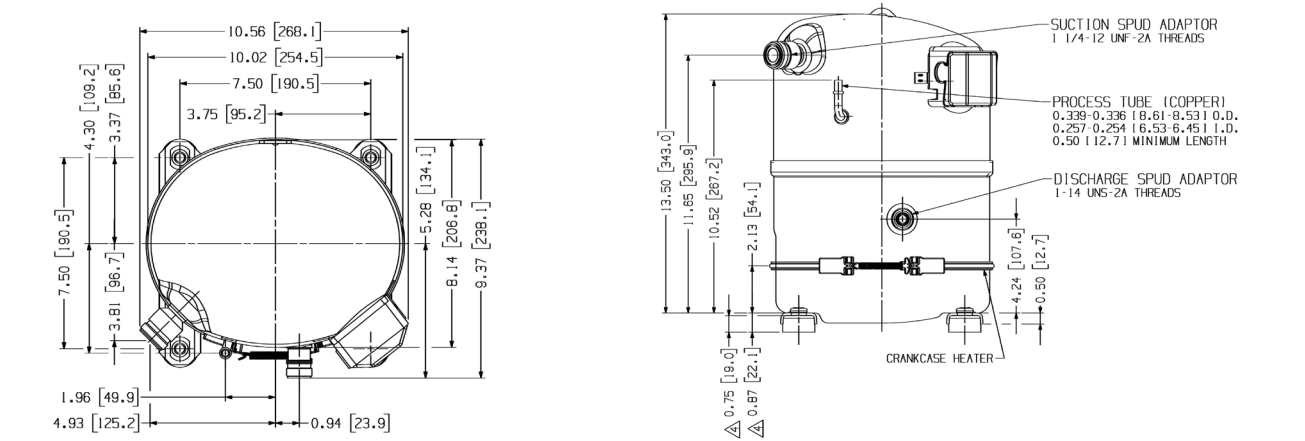
CS18 PFV



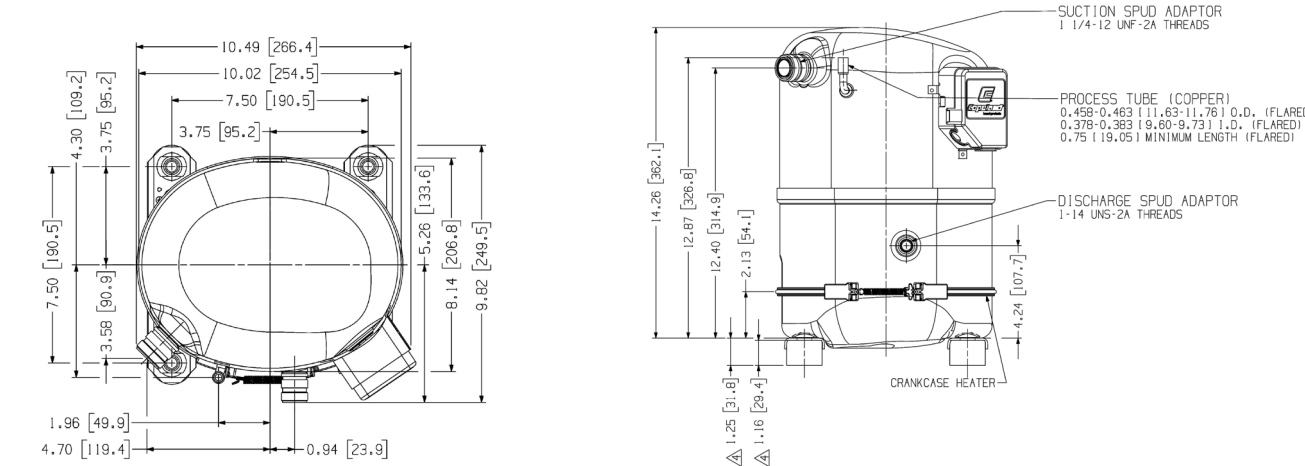
CSK6 Dimension Drawing – TFD

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 | | □F @ V AC | 189-227 @ 330 | 189-227 @ 330 |
| Run Capacitor | | □F @ 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

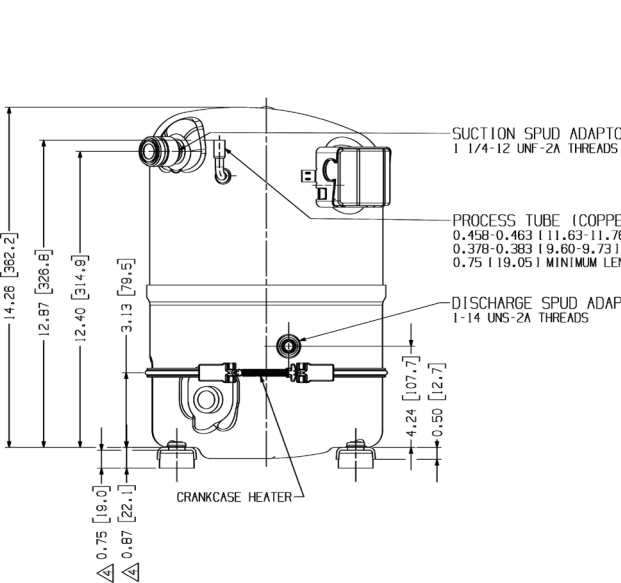
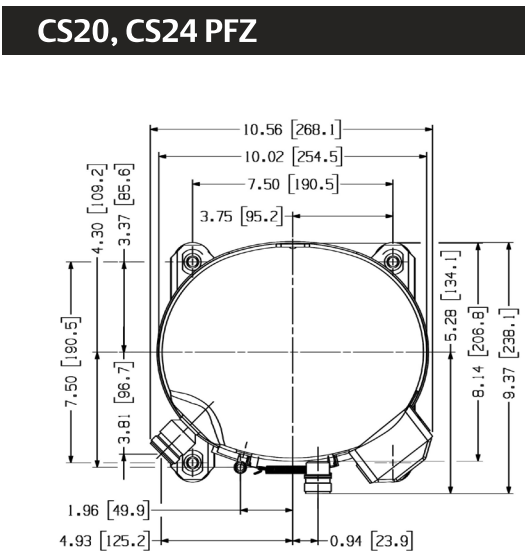
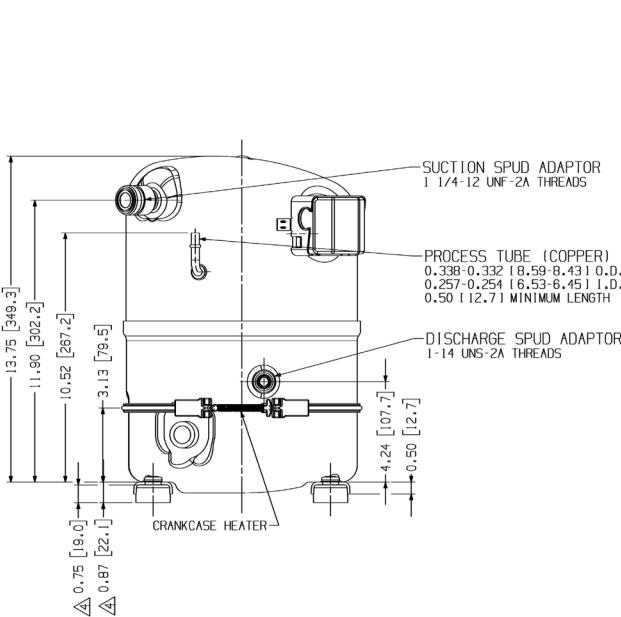
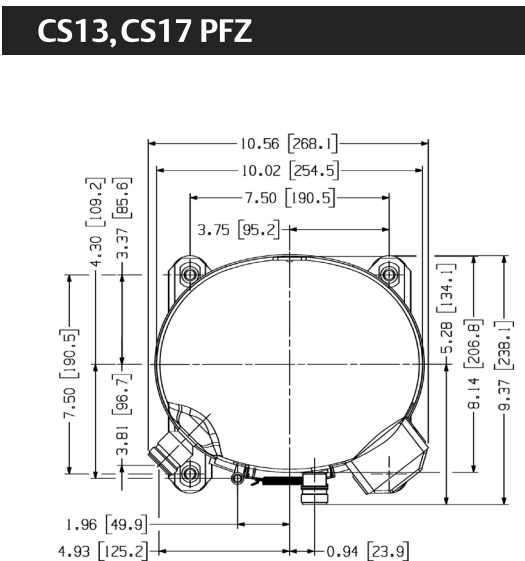
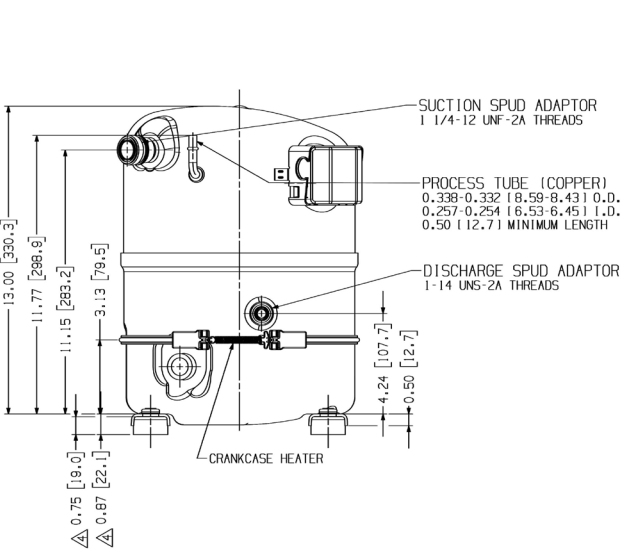
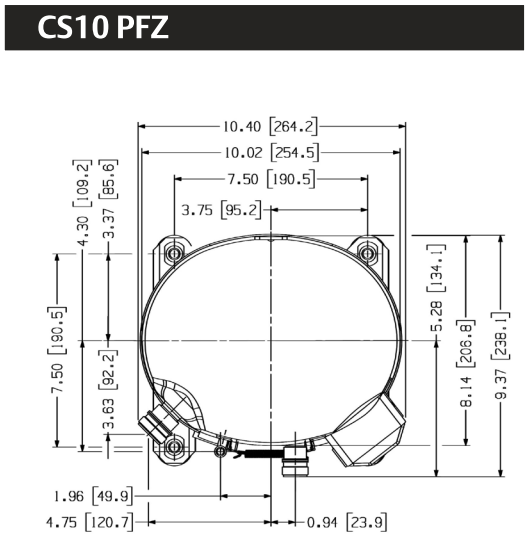
CSK7 Performance Data (2 of 3)

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 | |

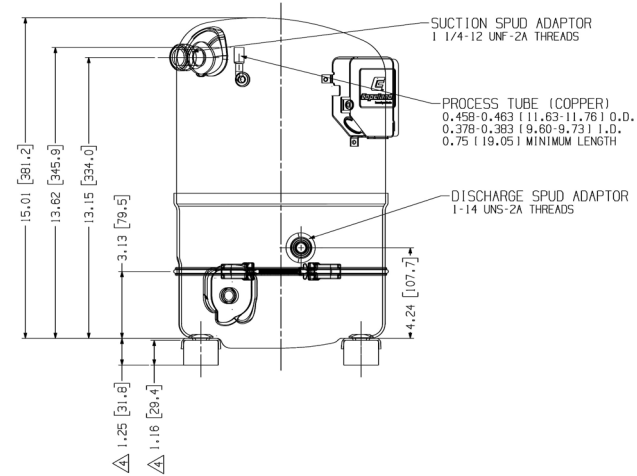
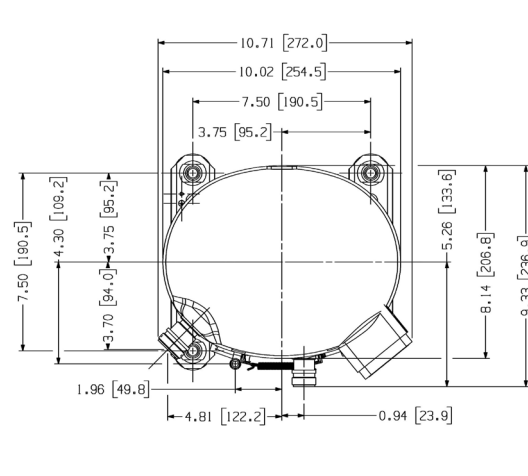
Note: Suction Gas Return 4.4°C



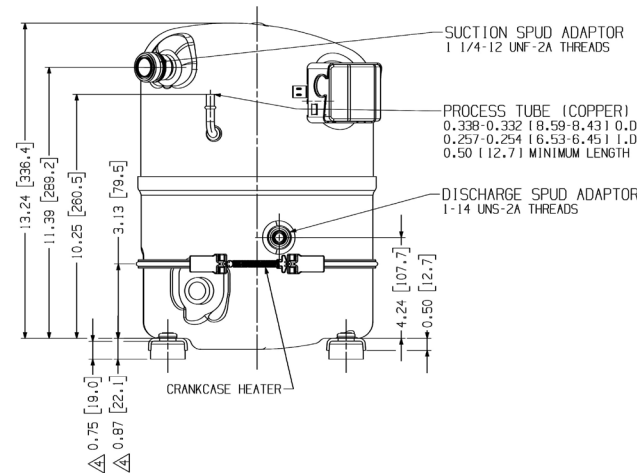
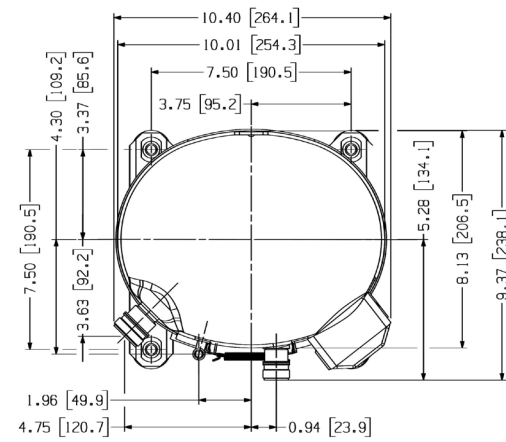
CSK7 Dimension Drawing - PFZ/TFM

50Hz

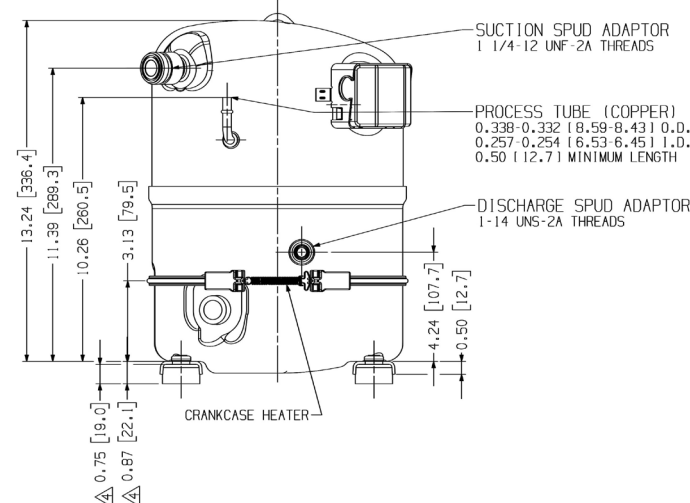
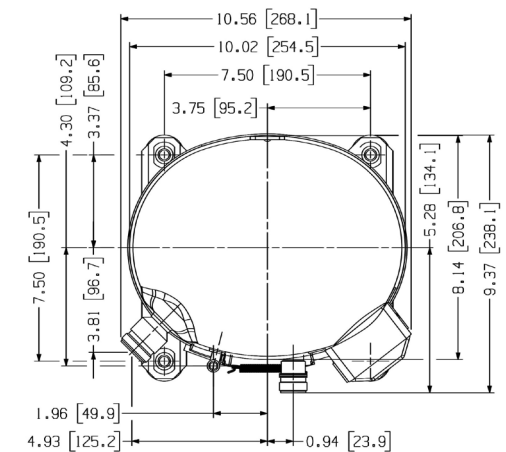
CS27, CS33 PFZ



CS10 TFM



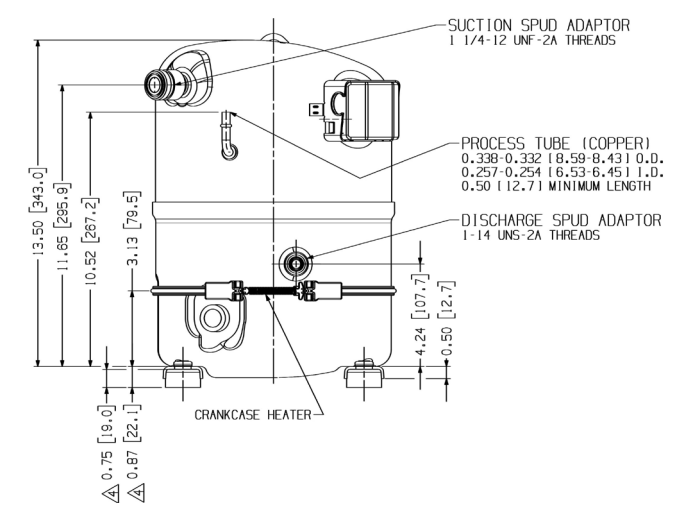
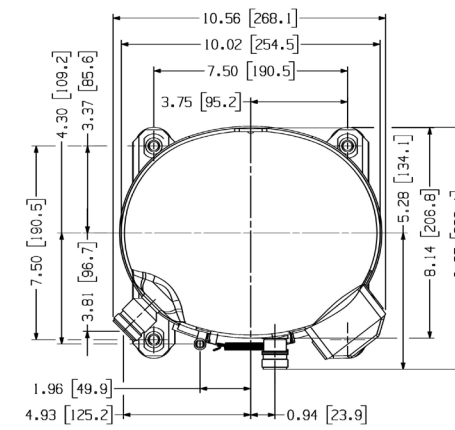
CS13 TFM



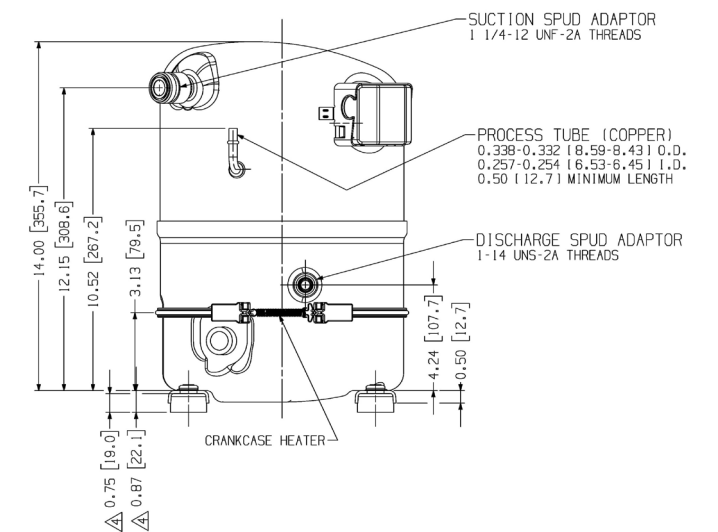
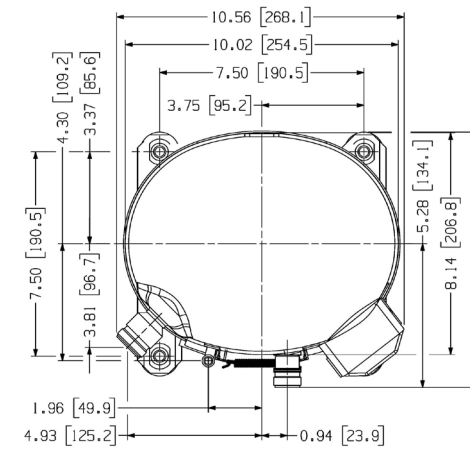
CSK7 Dimension Drawing - TFM

50Hz

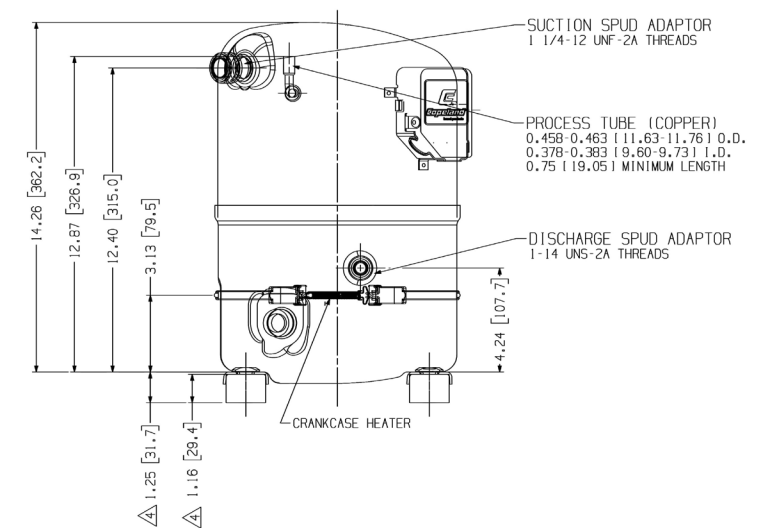
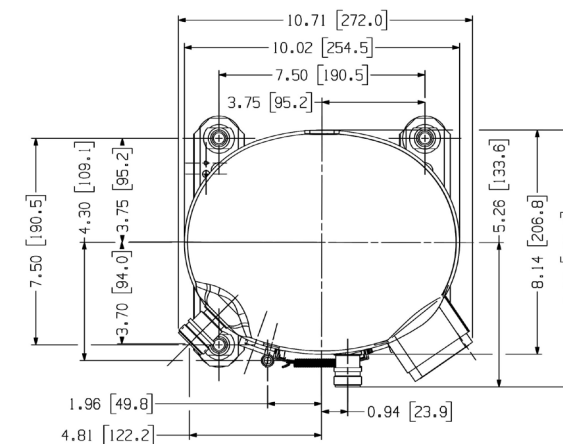
CS17 TFM



CS20 TFM



CS24, CS27, CS30, CS33 TFM



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 | |

| 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 | | | | |

| 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

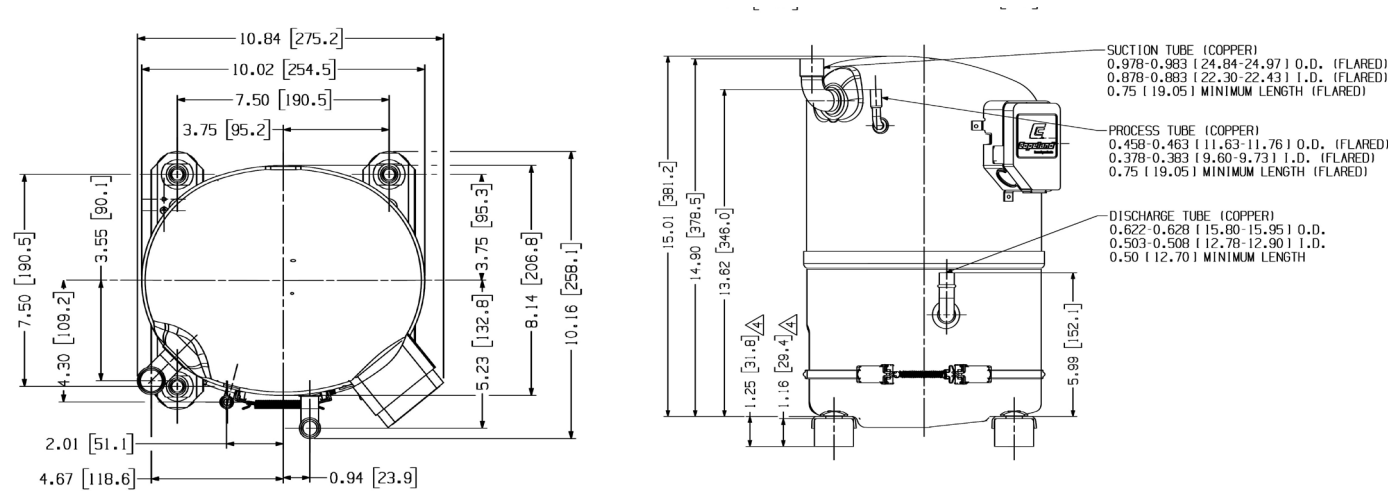
| Model | | Condensing Temp | | Evaporating Temp | | | | | | | | |
|------------------|------------------|-----------------|-------|------------------|---------|---------|---------|---------|--------|--------|-------|-------|
| | | | | -31.7°C | -26.1°C | -23.3°C | -17.8°C | -12.2°C | -6.7°C | -1.1°C | 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

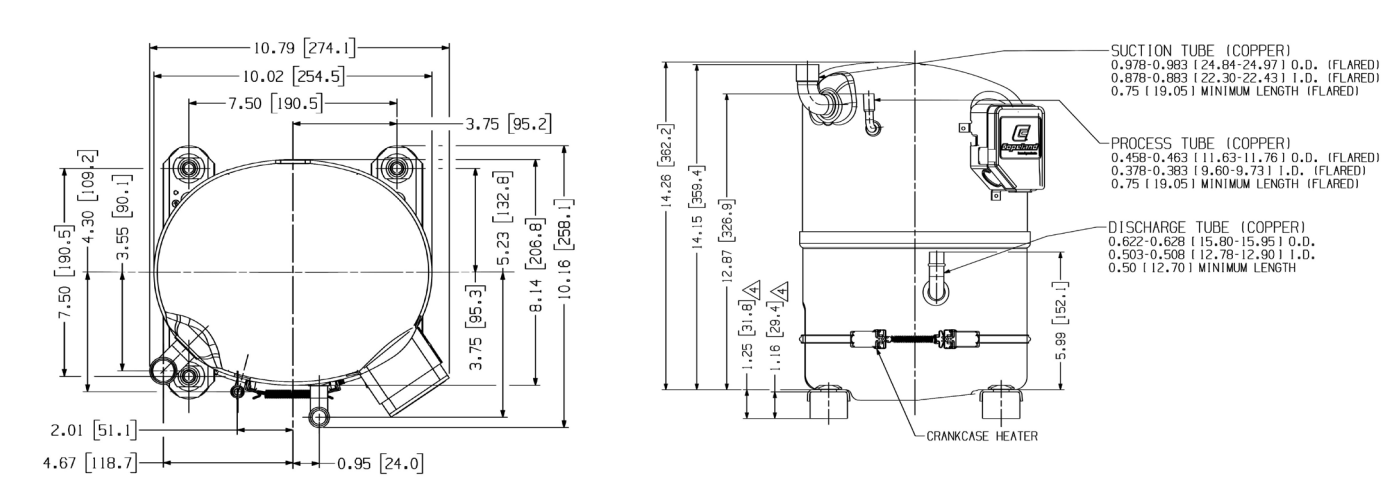
CS20 PFV



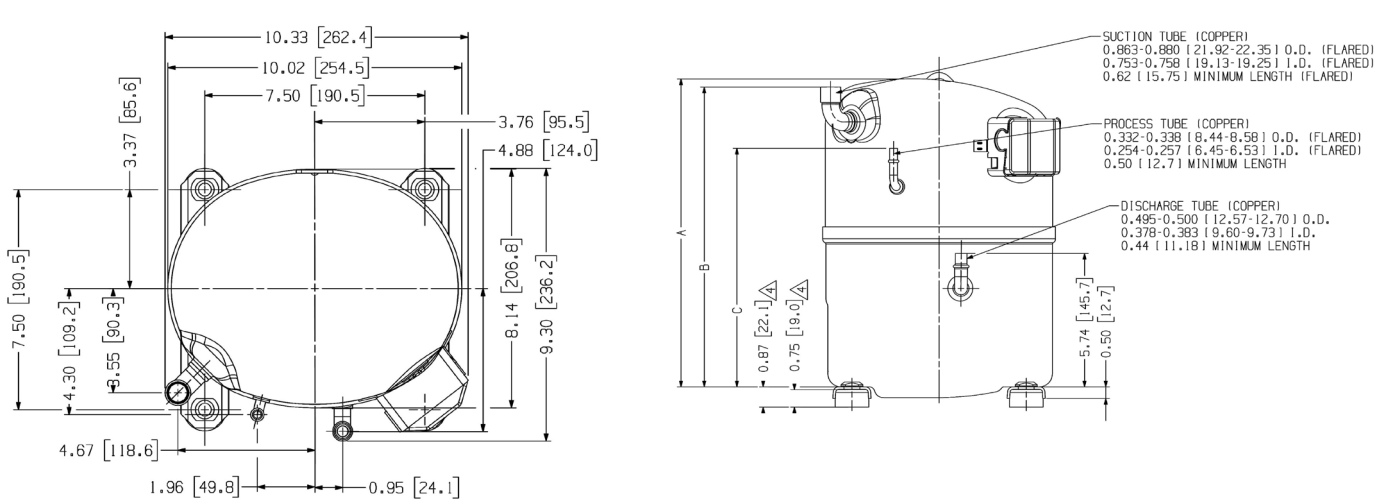
CSK7 Dimension Drawing – TF5/TFD

60Hz

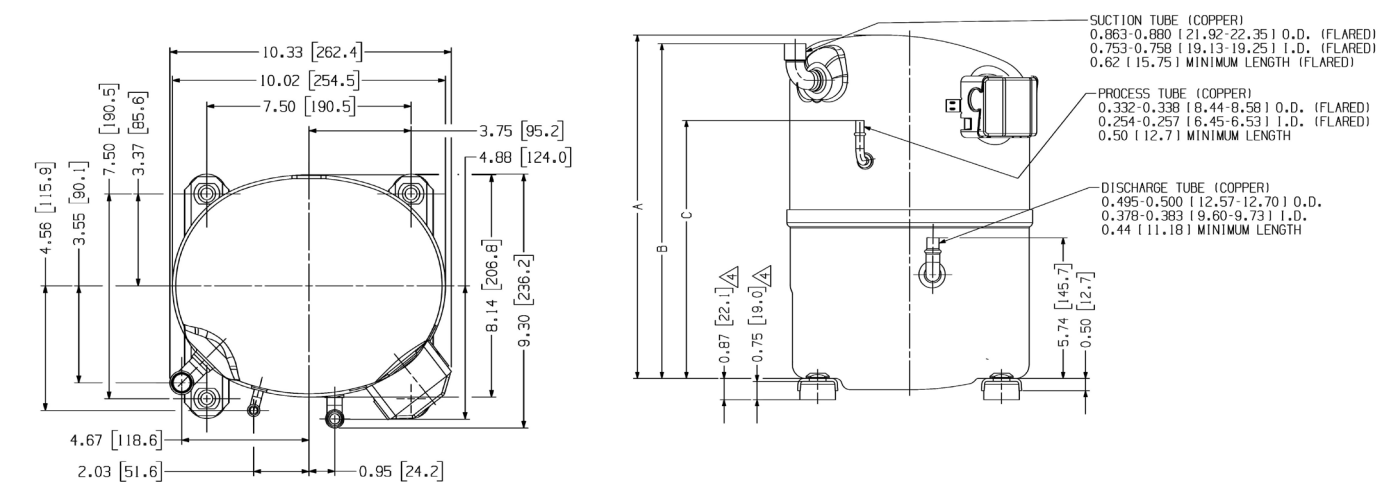
CS24, CS37, CS37 TF5\TFD



CS20, CS24, CS37 PFV



CS47, CS62 TF5\TFD



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 | | □F @ V AC | 150-200 @ 230 | 150-200 @ 230 |
| Run Capacitor | | □F @ 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 | |

| 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 | | |

Wiring Diagrams

Permanent Split Capacitor (PSC)

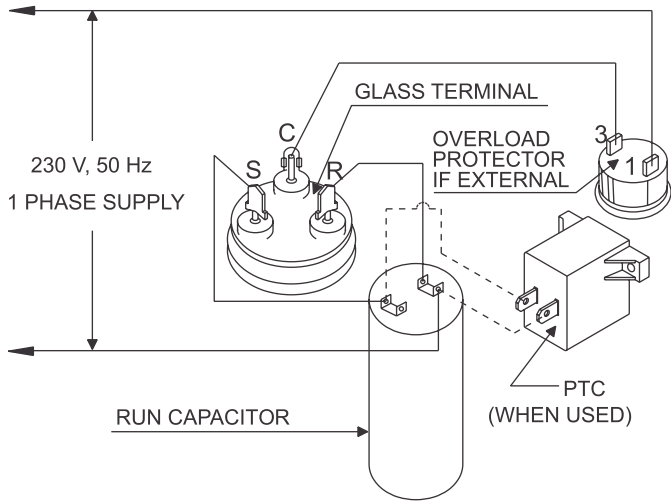


Fig. 1

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

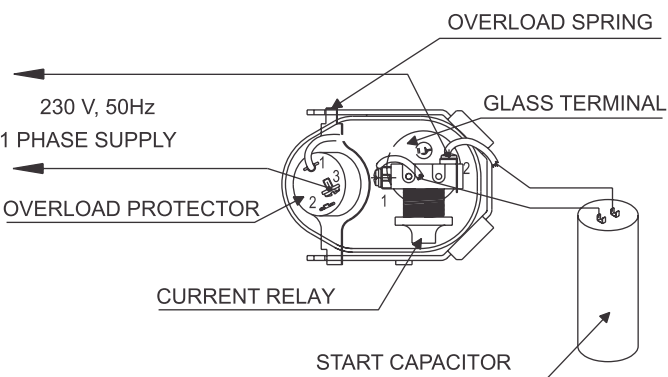


Fig. 2

Capacitor Start Induction Run (CSIR)

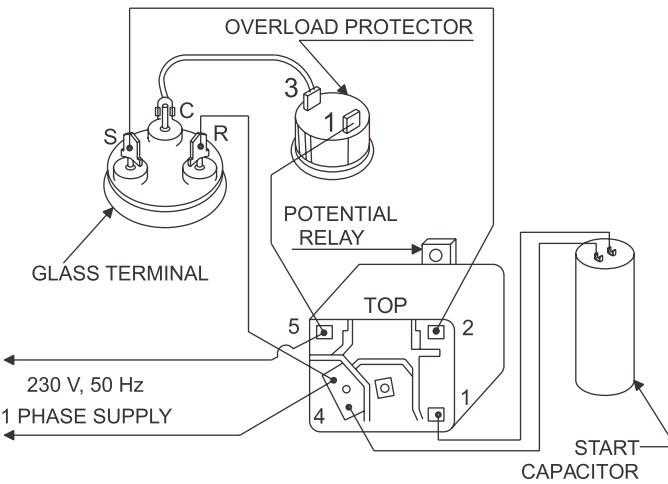


Fig. 5

Capacitor Start Induction Run (CSIR) with Current Relay

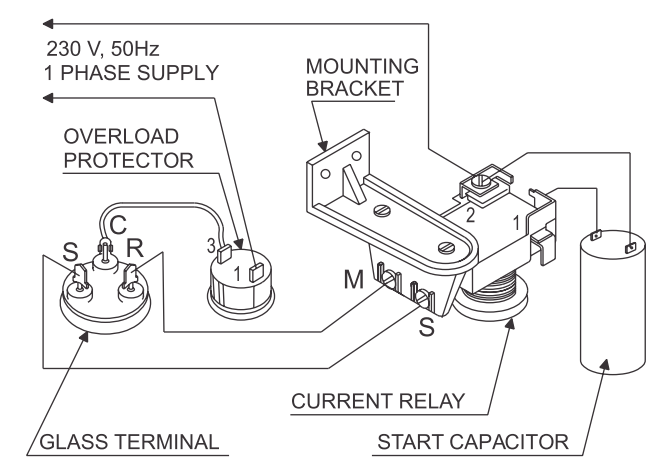


Fig. 6

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

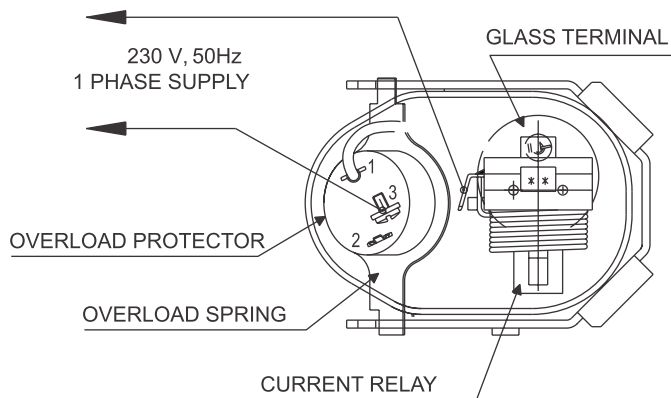


Fig. 3

Capacitor Start Capacitor Run (CSCR)

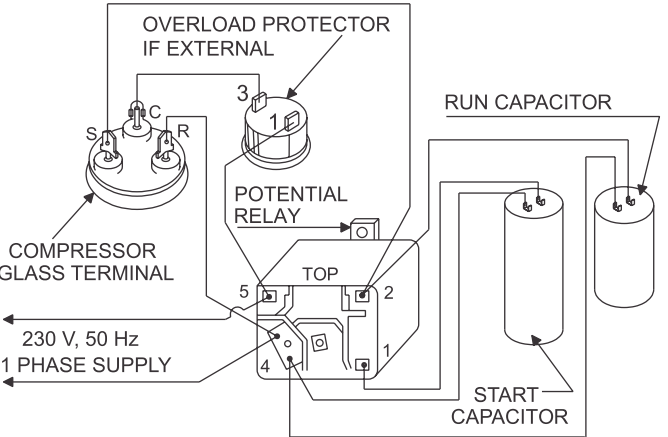


Fig. 4

Capacitor Start Capacitor Run (CSCR) with PTC

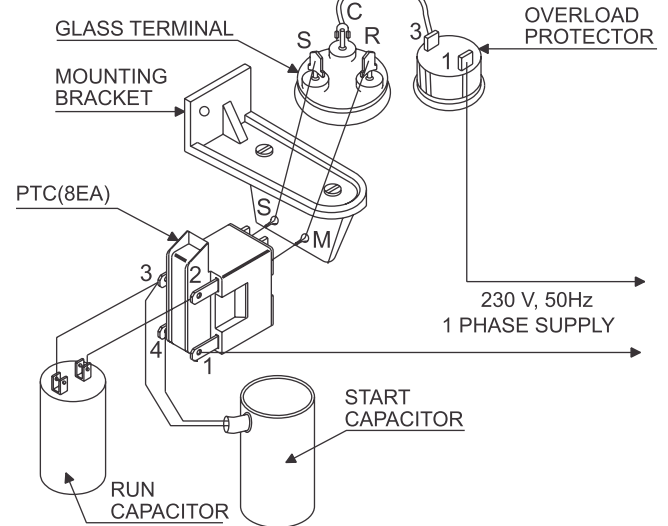


Fig. 7

Capacitor Start Capacitor Run (CSCR) with NTC

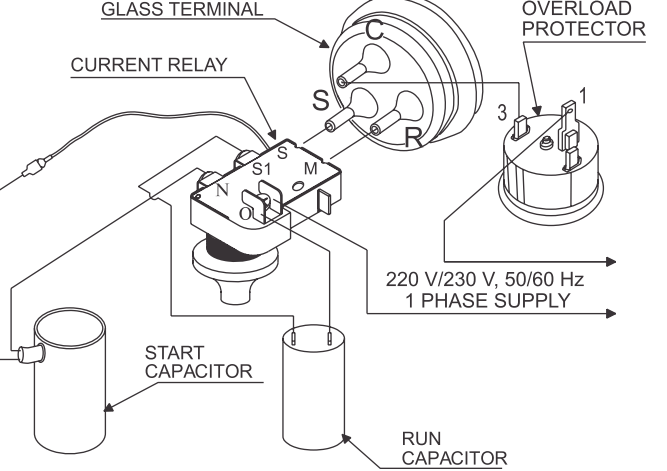


Fig. 8

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 Copeland.
- 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.



COPELAND SALES OFFICES:

Copeland India Pvt. Ltd.
56 Rama Road Industrial Area,
New Delhi 110015
Tel: (91-124) 489 4500

Copeland India Pvt. Limited
Regus, Office No. 109,
Tiffany Building, Level 1,
Hiranandani Estate, Ghodbunder Road,
Thane-400607

Ancillary Estate Gat No 1032,
Atit-Pali Road, Harpalwadi Tal.Karad
Dist- Satara Atit-415519 Maharashtra
GSTIN NO. 27AAACK7291C1ZL

Copeland India Pvt. Ltd.
Plot No. 127,
Udyog Vihar, Phase IV,
Gurgaon - 122 015, Haryana

Copeland India Pvt. Ltd.
Plot No. 23, Rajiv Gandhi Infotech Park, Phase - II, Hinjewadi, Pune-411 057
Tel: (91-20) 4200 2000, Fax: (91-20) 4200 2099

Tel: 1800 209 1700
Email: ClimateIndia@copeland.com



About Copeland

Copeland, a global provider of sustainable climate solutions, combines category-leading brands in compression, controls, software and monitoring for heating, cooling and refrigeration. With best-in-class engineering and design and the broadest portfolio of modulated solutions, we're not just setting the standard for compressor leadership; we're pioneering its evolution. Combining our technology with our smart energy management solutions, we can regulate, track and optimize conditions to help protect temperature-sensitive goods over land and sea, while delivering comfort in any space. Through energy-efficient products, regulation-ready solutions and expertise, we're revolutionizing the next generation of climate technology for the better. For more information, visit copeland.com.

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