

| CHAMPION | | R Series 15HP | | Eng. Data Sheet: CP-R6-V4 | | | | | | | | |
|--|--------|--|---------------------|---------------------------|----------|-----------|-----------------------|-------|------|---------|---------|----------|
| | | Engineering Data Sheet | | Date: 9/13/2022 | | | | | | | | |
| | | Air Cooled, 60Hz | | Supersedes: CP-R6-V3 | | | | | | | | |
| Model Number | | VR15F-12 | HR15F-8 | HR15F-12 | HR15F-24 | HR15DF-12 | HR15DF-24 | BR15F | BR15 | HR15-12 | HR15-24 | HR15D-24 |
| Configurator Number | | R2-30A | | | | | | | | | | |
| Description | | Units | Product Data | | | | | | | | | |
| Compressor Pump | | | | | | | | | | | | |
| Pump Model | n/a | R30D | | | | | R40A | | | | | |
| Number of Cylinders | n/a | 4 | | | | | 2 | | | | | |
| Bore & Stroke | in. | 4-5/8 & 2-1/2 x 3 | | | | | 6-1/4 & 3-1/4 x 4-1/2 | | | | | |
| Flywheel | OD in. | 18-7/8 | | | | | 22 | | | | | |
| Pulley 80 / 125 PSIG | OD in. | 11.15 | | | | | 11.35 | | | | | |
| Pulley 175 PSIG | OD in. | 11.15 | | | | | 9.75 | | | | | |
| Number of Stages | n/a | 2 | | | | | | | | | | |
| Lubrication | n/a | Splash Lubricated | | | | | | | | | | |
| Oil Capacity | qt. | 4 | | | | | | | | | | |
| Oil Type | n/a | CHAMPLUB, ISO 100 Non-Detergent Industrial Lubricant | | | | | | | | | | |
| Number of Belt Grooves | n/a | 2 | | | | | 3 | | | | | |
| Belt Section | n/a | B | | | | | | | | | | |
| Crankcase | n/a | Cast Iron | | | | | | | | | | |
| Bearings | n/a | Tapered Roller | | | | | | | | | | |
| Cylinder | n/a | Aluminum with Cast Iron Liner | | | | | Cast Iron | | | | | |
| Piston 1st Stage | n/a | Aluminum Alloy | | | | | | | | | | |
| Piston 2nd Stage | n/a | Cast Iron | | | | | | | | | | |
| Valves | n/a | Disc Valves | | | | | | | | | | |
| Intake Filter | n/a | 5 Micron | | | | | | | | | | |
| Main Drive Motor (1) | | | | | | | | | | | | |
| Drive Motor Nominal Power | hp(kW) | 15 (11.19) | | | | | | | | | | |
| Voltage (2) | n/a | 208/230/460/575 | | | | | | | | | | |
| Phase | n/a | 3 | | | | | | | | | | |
| Drive Motor Speed | rpm | 1800 | | | | | | | | | | |
| Service Factor | n/a | 1.15 | | | | | | | | | | |
| Motor Insulation Class | n/a | F | | | | | | | | | | |
| Drive Motor Full Load Current - 208/3/60 (3) | amps | 46.2 | | | | | | | | | | |
| Drive Motor Full Load Current - 230/3/60 (3) | amps | 42 | | | | | | | | | | |
| Drive Motor Full Load Current - 460/3/60 (3) | amps | 21 | | | | | | | | | | |
| Drive Motor Full Load Current - 575/3/60 (3) | amps | 17 | | | | | | | | | | |
| Wire Size - 208/3/60 (3,4,5) | awg | 6 (1) | | | | | 6 (1) | | | | | |
| Wire Size - 230/3/60 (3,4,5) | awg | 6 (2) | | | | | 6 (2) | | | | | |
| Wire Size - 460/3/60 (3,4,5) | awg | 10 (6) | | | | | 10 (6) | | | | | |
| Wire Size - 575/3/60 (3,4,5) | awg | 10 (8) | | | | | 10 (8) | | | | | |

1) Main Drive Motor performance is based off the standard ODP motor.

2) Compressors are voltage specific and must be specified at time of order.

3) The amp draws and wire size provided are off general NEC guidelines. For proper breaker and fuses please consult a licensed electrician or electrical contractor.

4) Copper wire, 75°C (167°F) maximum temperature rating, 30°C (86°F) ambient temperature

5) Values in () is for incoming power line on duplex units.

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| | | Engineering Data Sheet | | | | | | Date: 9/13/2022 | | | | | | |
| | | Air Cooled, 60Hz | | | | | | Supersedes: CP-R6-V3 | | | | | | |
| Model Number | | VR15F-12 | HR15F-8 | HR15F-12 | HR15F-24 | HR15DF-12 | HR15DF-24 | BR15F | BR15 | HR15-12 | HR15-24 | HR15D-24 | | |
| Configurator Number | | R2-30A | | | | | | | | | | | | |
| Description | Units | Product Data | | | | | | | | | | | | |
| Performance Data (6) | | | | | | | | | | | | | | |
| CFM Delivery @ 80 PSIG (7) | acfm | 50.3 | 100.6 | 50.3 | 61.6 | 123.2 | | | | | | | | |
| CFM Delivery @ 125 PSIG (7) | acfm | 49.9 | 99.8 | 49.9 | 59.9 | 119.8 | | | | | | | | |
| CFM Delivery @ 175 PSIG (7) | acfm | 48.7 | 97.4 | 48.7 | 54.1 | 108.2 | | | | | | | | |
| Displacement @ 80 / 125 PSIG | cfm | 60.9 | 121.8 | 60.9 | 71.1 | 142.2 | | | | | | | | |
| Displacement @ 175 PSIG | cfm | 60.9 | 121.8 | 60.9 | 61.5 | 123.0 | | | | | | | | |
| Maximum Pressure | psig | 175 | | | | | | | | | | | | |
| Working Pressure Differential | psig | 35 | | | | | | | | | | | | |
| Pump Operating Speed @ 80 / 125 PSIG | rpm | 1034 | | | | | 903 | | | | | | | |
| Pump Operating Speed @ 175 PSIG | rpm | 1034 | | | | | 776 | | | | | | | |
| Minimum Speed | rpm | 400 | | | | | 425 | | | | | | | |
| Maximum Speed | rpm | 1050 | | | | | 1000 | | | | | | | |
| Cooling Air Flow 80 / 125 PSIG | cfm | 1505 | | | | | 2980 | | | | | | | |
| Cooling Air Flow 175 PSIG | cfm | 1505 | | | | | 2580 | | | | | | | |
| Dryer Flow | cfm | | | | | | | | | | | | | |
| Heat Rejection | btu/hr | 33,600 | | | 67,200 | | 33,600 | | | 67,200 | | | | |
| Noise Level (8) | dB(A) | 82 | | | 84 | | 82 | | | 84 | | | | |
| Aftercooler Approach Temp (9) | °F | 40 | | | | | 30 | | | | | | | |
| Min/Max Operating Temp | °F | 32 / 104 | | | | | | | | | | | | |
| Dimensions and Weight | | | | | | | | | | | | | | |
| Tank Size | gal | 120 | 80 | 120 | 240 | 120 | 240 | n/a | | 120 | 240 | | | |
| Tank Configuration | n/a | Vert. | Horizontal | | | | | | | Horizontal | | | | |
| Tank Capacity @ 80 PSIG | ft³ | 103.3 | 68.9 | 103.3 | 206.7 | 103.3 | 206.7 | | | 103.3 | 206.7 | | | |
| Tank Capacity @ 125 PSIG | ft³ | 152.4 | 101.6 | 152.4 | 304.9 | 152.4 | 304.9 | | | 152.4 | 304.9 | | | |
| Tank Capacity @ 175 PSIG | ft³ | 207.0 | 138.0 | 207.0 | 414.0 | 207.0 | 414.0 | | | 207.0 | 398.8 | | | |
| Tank Pumping Time @ 125 PSIG (10) | min | 2.7 | 1.8 | 2.7 | 5.7 | 1.4 | 2.8 | | | 2.3 | 4.8 | 2.4 | | |
| Tank Pumping Time @ 175 PSIG (10) | min | 3.9 | 2.6 | 3.9 | 8.1 | 2.0 | 4.1 | | | 3.6 | 7.4 | 3.7 | | |
| Package Length | in. | 42.7 | 67.2 | 71.8 | 88.2 | 83.0 | 88.3 | 42.7 | 48.7 | 73.2 | 89.0 | 89.5 | | |
| Package Length w/ dryer | in. | n/a | 0.0 | 82.5 | 91.9 | n/a | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Package Width | in. | 37.4 | 31.6 | 32.8 | 33.3 | 33.7 | 37.9 | 25.3 | 33.7 | 35.6 | 33.3 | 53.4 | | |
| Package Width w/ dryer | in. | n/a | 0.0 | 35.8 | 35.8 | n/a | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Package Height | in. | 75.7 | 48.8 | 54.7 | 60.7 | 54.0 | 60.6 | 28.2 | 37.6 | 62.4 | 60.6 | 73.2 | | |
| Package Height w/ dryer | in. | n/a | 0.0 | 54.8 | 61.4 | n/a | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Approx. Ship Weight | lbs. | 1017 | 898 | 1012 | 1371 | 1860 | 2460 | 550 | 730 | 1210 | 1564 | 2460 | | |
| Approx. Ship Weight w/ dryer | lbs. | n/a | 0 | 1178 | 1328 | n/a | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Pump Length | in. | 21.13 | | | | | 26.0 | | | | | | | |
| Pump Width | in. | 25.42 | | | | | 30.0 | | | | | | | |
| Pump Height | in. | 23.563 | | | | | 32.0 | | | | | | | |
| Pump Weight | lbs. | 220 | | | | | 440.0 | | | | | | | |
| Discharge Connection (11) | npt " | 3/4 F | | | | | 1 F | | 1-1/4 F | | | | | |
| Parts Manual ID | n/a | CQF3455 | | | | | CQF3456 | | | | | | | |
| Service Manual ID | n/a | CQF3473 | | | | | | | | | | | | |
| Controller Manual ID | n/a | CQF3475 | | | CQF3538 | | CQF3475 | | | CQF3538 | | | | |

6) All units tested in accordance with CAGI/PNEUROP Acceptance Test Code PN2CPTC2.

7) acfm is actual cubic feet per minute at inlet conditions.

8) Sound levels are based off estimated dB(A).

9) Approach temperature is the temperature above the discharge air and above the ambient air of the aftercooler.

10) Tank pumping time is based off 0 PSIG to fully pressurized.

11) M = Male connection, F=Female connection

NOTE: Duplex models take quantities of 2 on applicable items such as motors, pump, oil quantity, etc.