

	R Series 15HP		Eng. Data Sheet: CP-R6-V2	
	Engineering Data Sheet		Date: 7/25/2019	
	Air Cooled, 60Hz		Supersedes: CP-R6-V1	
Model Number	<div style="display: flex; justify-content: space-around; text-align: center;"> VR15F-12 HR15F-8 HR15F-12 HR15F-24 HR15DF-12 HR15DF-24 BR15F BR15 HR15-12 HR15-24 HR15D-24 </div>			
Configurator Number	R2-30A			
Description	Units	Product Data		
Compressor Pump				
Pump Model	na	R30D		R40A
Number of Cylinders	na	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 125 PSIG	OD in.	11.15		11.35
Pulley 175 PSIG	OD in.	11.15		9.75
Number of Stages	na	2		
Lubrication	na	Splash Lubricated		
Oil Capacity	qt.	4		
Oil Type	na	AEON AC-HC, ISO 100 Non-Detergent Industrial Lubricant		
Number of Belt Grooves	na	2		3
Belt Section	na	B		
Crankcase	na	Cast Iron		
Bearings	na	Tapered Roller		
Cylinder	na	Aluminum with Cast Iron Liner		Cast Iron
Piston 1st Stage	na	Aluminum Alloy		
Piston 2nd Stage	na	Cast Iron		
Valves	na	Disc Valves		
Intake Filter	na	5 Micron		
Main Drive Motor (1)				
Drive Motor Nominal Power	hp(kW)	15 (11.19)		
Voltage (2)	na	208/230/460/575		
Phase	na	3		
Drive Motor Speed	rpm	1800		
Service Factor	na	1.15		
Motor Insulation Class	na	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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CHAMPION	R Series 15HP							Eng. Data Sheet: CP-R6-V2					
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	Air Cooled, 60Hz							Supersedes: CP-R6-V1					
Model Number	<div style="display: flex; justify-content: space-around; text-align: center;"> VR15F-12 HR15F-8 HR15F-12 HR15F-24 HR15DF-12 HR15DF-24 BR15F BR15 HR15-12 HR15-24 HR15D-24 </div>												
Configurator Number	R2-30A												
Description	Units	Product Data											
Performance Data (6)													
CFM Delivery @ 125 PSIG (7)	acfm	50.2			100.4			50.2			59.0		118.0
CFM Delivery @ 175 PSIG (7)	acfm	49			98			49			53.7		107.4
CFM Displacement @ 125 PSIG	icfm	60.9			121.8			60.9			71.1		142.2
CFM Displacement @ 175 PSIG	icfm	60.9			121.8			60.9			61.5		123.0
Maximum Pressure	psig	175											
Working Pressure Differential	psig	35											
Pump Operating Speed @ 125 PSIG	rpm	1035					890						
Pump Operating Speed @ 175 PSIG	rpm	1035					770						
Minimum Speed	rpm	400					425						
Maximum Speed	rpm	1050					1000						
Cooling Air Flow 125 PSIG	cfm	1505					2980						
Cooling Air Flow 175 PSIG	cfm	1505					2580						
Heat Rejection	btu/hr	33,600											
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	na		120	240		
Tank Configuration	na	Vert.	Horizontal					na		Horizontal			
Tank Capacity @ 125 PSIG	ft³	136.7	91.1	136.7	284.9	136.7	284.9	na		136.7	284.9		
Tank Capacity @ 175 PSIG	ft³	191.4	127.6	191.4	398.8	191.4	398.8	na		191.4	398.8		
Tank Pumping Time @ 125 PSIG (10)	min	2.7	1.8	2.7	5.7	1.4	2.8	na		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	na		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 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 Height	in.	75.7	48.8	54.7	60.7	54.0	60.6	28.2	37.6	62.4	60.6	73.2	
Approx. Ship Weight	lbs.	1017	898	1012	1371	1860	2460	550	730	1210	1564	2460	
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				
Operating/Parts Manual ID	na	CQGF3455					CQGF3456						

6) All units tested in accordance with CAGI/PNEUROPE 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.

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