CHAMPION	R Series 10HP					Eng. Data Sheet: CP-R5-V2		
	Engineering Data Sheet					Date: 7/25/2019		
	Air Cooled, 60Hz					Supersedes: CP-R5-V1		
Model Number	**BR10**	**VR10-8**	**VR10-12**	**HR10-8**	**HR10-12**	**HR10-24**	**HR10D-12**	**HR10D-24**
Configurator Number	**R2-30A**							
Description / **Units**	**Product Data**							
Compressor Pump								
Pump Model / na	R30D							
Number of Cylinders / na	4							
Bore & Stroke / in.	4-5/8 (2) & 2-1/2 (2) x 3							
Flywheel / OD in.	18.875							
Pulley 125 PSIG / OD in.	8.38							
Pulley 175 PSIG / OD in.	8.15							
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							
Belt Section / na	B							
Crankcase / na	Cast Iron							
Bearings / na	Tapered Roller							
Cylinder / na	Aluminum with Cast Iron Liner							
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)	10 (7.46)							
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	30.8							
Drive Motor Full Load Current - 230/3/60 (3) / amps	28							
Drive Motor Full Load Current - 460/3/60 (3) / amps	14							
Drive Motor Full Load Current - 575/3/60 (3) / amps	11							
Wire Size - 208/3/60 (3,4,5) / awg	8 (4)							
Wire Size - 230/3/60 (3,4,5) / awg	8 (4)							
Wire Size - 460/3/60 (3,4,5) / awg	12 (8)							
Wire Size - 575/3/60 (3,4,5) / awg	14 (10)							

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 10HP					Eng. Data Sheet: CP-R5-V2		
	Engineering Data Sheet					Date: 7/25/2019		
	Air Cooled, 60Hz					Supersedes: CP-R5-V1		
Model Number	**BR10**	**VR10-8**	**VR10-12**	**HR10-8**	**HR10-12**	**HR10-24**	**HR10D-12**	**HR10D-24**
Configurator Number	**R2-30A**							
Description / **Units**	**Product Data**							
Performance Data (6)								
CFM Delivery @ 125 PSIG (7) / acfm	37.3						74.6	
CFM Delivery @ 175 PSIG (7) / acfm	34.8						69.6	
CFM Displacement @ 125 PSIG / icfm	47.3						94.6	
CFM Displacement @ 175 PSIG / icfm	43.1						86.2	
Maximum Pressure / psig	175							
Working Pressure Differential / psig	35							
Pump Operating Speed @ 125 PSIG / rpm	810							
Pump Operating Speed @ 175 PSIG / rpm	740							
Minimum Speed / rpm	400							
Maximum Speed / rpm	1050							
Cooling Air Flow 125 PSIG / cfm	1180							
Cooling Air Flow 175 PSIG / cfm	1075							
Heat Rejection / btu/hr	22400							
Noise Level (8) / dB(A)	78						80	
Aftercooler Approach Temp (9) / ˚F	40							
Min/Max Operating Temp / ˚F	32/104							
Dimensions and Weight								
Tank Size / gal	na	80	120	80	120	240	120	240
Tank Configuration / na	na	Vertical		Horizontal				
Tank Capacity @ 125 PSIG / ft³	na	91.1	136.7	91.1	136.7	284.4	136.7	284.4
Tank Capacity @ 175 PSIG / ft³	na	127.6	191.4	127.6	191.4	398.8	191.4	398.8
Tank Pumping Time @ 125 PSIG (10) / min	na	2.4	3.7	2.4	3.7	7.6	1.8	3.8
Tank Pumping Time @ 175 PSIG (10) / min	na	3.7	5.5	3.7	5.5	11.4	2.7	5.7
Package Length / in.	42.7	42.8	42.7	67.2	71.8	88.2	83.0	88.3
Package Width / in.	25.3	37.9	37.4	31.6	32.8	33.3	33.7	37.9
Package Height / in.	28.2	63.7	75.7	48.8	54.7	60.7	54.0	60.6
Approx. Ship Weight / lbs.	723	766	895	776	895	1249	1725	2325
Pump Length / in.	21.13							
Pump Width / in.	25.42							
Pump Height / in.	23.563							
Pump Weight / lbs.	220							
Discharge Conn. / npt "	3/4 F			3/4 F				
Operating/Parts Manual ID / na	CQGF3455							

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.

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