

CHAMPION		R Series 2HP					Eng. Data Sheet: CP-R1-V2		
		Engineering Data Sheet					Date: 11/20/2015		
		Air Cooled, 60Hz					Supersedes: CP-R1-V1		
Model Number		BR2	VR2-6	VR2-8	HR2-3	HR2-6	HR2-8	HR2D-8	HR2D-12
Configurator Number		CABRSA	CASRSA				CADRSA		
Description		Units	Product Data						
Compressor Pump									
Pump Model	na	R10D							
Number of Cylinders	na	2							
Bore & Stroke	in.	4-5/8 & 2-1/2 x 2							
Flywheel	OD in.	16.5							
Pulley 125 PSIG	OD in.	5.15							
Pulley 175 PSIG	OD in.	4.35							
Number of Stages	na	2							
Lubrication	na	Splash Lubricated							
Oil Capacity	qt.	2							
Oil Type	na	CHAMPLUB, 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)	2 (1.49)							
Voltage (2)	na	115/208/230/460/575							
Phase	na	1 or 3							
Drive Motor Speed	rpm	1800							
Service Factor	na	1.15							
Motor Insulation Class	na	B or F							
Drive Motor Full Load Current - 115/1/60 (3)	amps	24							
Drive Motor Full Load Current - 208/1/60 (3)	amps	13.2							
Drive Motor Full Load Current - 230/1/60 (3)	amps	12							
Drive Motor Full Load Current - 208/3/60 (3)	amps	7.8							
Drive Motor Full Load Current - 230/3/60 (3)	amps	6.8							
Drive Motor Full Load Current - 460/3/60 (3)	amps	3.4							
Drive Motor Full Load Current - 575/3/60 (3)	amps	2.7							
Wire Size - 115/1/60 (3,4,5)	awg	8 (6)							
Wire Size - 208/1/60 (3,4,5)	awg	12 (8)							
Wire Size - 230/1/60 (3,4,5)	awg	12 (10)							
Wire Size - 208/3/60 (3,4,5)	awg	14 (12)							
Wire Size - 230/3/60 (3,4,5)	awg	14 (14)							
Wire Size - 460/3/60 (3,4,5)	awg	14 (14)							
Wire Size - 575/3/60 (3,4,5)	awg	14 (14)							

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

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Configurator Number		CABRSA	CASRSA				CADRSA			
Description		Units	Product Data							
Performance Data (6)										
CFM Delivery @ 125 PSIG (7)	acfm	5.6					11.2			
CFM Delivery @ 175 PSIG (7)	acfm	4.2					8.4			
CFM Displacement @ 125 PSIG	icfm	10.9					21.8			
CFM Displacement @ 175 PSIG	icfm	9.2					18.4			
Maximum Pressure	psig	175								
Working Pressure Differential	psig	35								
Pump Operating Speed @ 125 PSIG	rpm	562								
Pump Operating Speed @ 175 PSIG	rpm	475								
Minimum Speed	rpm	400								
Maximum Speed	rpm	1050								
Cooling Air Flow @ 125 PSIG	cfm	647								
Cooling Air Flow @ 175 PSIG	cfm	547								
Heat Rejection	btu/hr	4480								
Noise Level (8)	dB(A)	74								
Aftercooler Approach Temp (9)	°F	50								
Min/Max Operating Temp	°F	32/104								
Dimensions and Weight										
Tank Size	gal		60	80	30	60	80	80	120	
Tank Configuration	na	n/a	Vertical			Horizontal				
Tank Capacity @ 125 PSIG	ft³	n/a	68.4	91.1	34.2	68.4	91.1	91.1	136.7	
Tank Capacity @ 175 PSIG	ft³	n/a	95.7	127.6	47.8	95.7	127.6	127.6	191.4	
Tank Pumping Time @ 125 PSIG (10)	min	n/a	12.20	16.27	6.10	12.20	16.27	8.13	12.20	
Tank Pumping Time @ 175 PSIG (10)	min	n/a	22.74	30.32	11.37	22.74	30.32	15.16	22.74	
Package Length	in.	38	33	35	41.5	51	66	71.5	75	
Package Width	in.	25	25	27	25	22.5	22.5	31	30	
Package Height	in.	29.5	77	75	44.5	49	49	49	56.5	
Total Package Weight	lbs.	205	425	455	320	425	455	715	940	
Pump Length	in.	20.0								
Pump Width	in.	16.5								
Pump Height	in.	23.25								
Pump Weight	lbs.	107								
Discharge Connection (11)	npt "	1/2 F								
Outline Drawing ID	na	304CAB800	316CAS800	331CAS800	332CAS800	333CAS800	334CAS800	311CAD800	312CAD800	
Operating/Parts Manual ID	na	F3231								

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

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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