

<b>CHAMPION</b>		<b>R Series 3HP</b>							<b>Eng. Data Sheet: CP-R2-V2</b>		
		<b>Engineering Data Sheet</b>							<b>Date: 11/20/2015</b>		
		<b>Air Cooled, 60Hz</b>							<b>Supersedes: CP-R2-V1</b>		
<b>Model Number</b>		<b>BR3F</b>	<b>VR3F-6</b>	<b>VR3F-8</b>	<b>VR3F-12</b>	<b>HR3F-3</b>	<b>HR3F-6</b>	<b>HR3F-8</b>	<b>HR3F-12</b>	<b>HR3DF-8</b>	<b>HR3DF-12</b>
<b>Configurator Number</b>		<b>CABRSA CASRSA</b>							<b>CADRSA</b>		
<b>Description</b>		<b>Units</b>	<b>Product Data</b>								
<b>Compressor Pump</b>											
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.	7.75									
Pulley 175 PSIG	OD in.	7.35									
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									
<b>Main Drive Motor (1)</b>											
Drive Motor Nominal Power	hp(kW)	3 (2.24)									
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	F									
Drive Motor Full Load Current - 115/1/60 (3)	amps	34									
Drive Motor Full Load Current - 208/1/60 (3)	amps	18.7									
Drive Motor Full Load Current - 230/1/60 (3)	amps	17									
Drive Motor Full Load Current - 208/3/60 (3)	amps	10.6									
Drive Motor Full Load Current - 230/3/60 (3)	amps	9.6									
Drive Motor Full Load Current - 460/3/60 (3)	amps	4.8									
Drive Motor Full Load Current - 575/3/60 (3)	amps	3.9									
Wire Size - 115/1/60 (3,4,5)	awg	8 (3)									
Wire Size - 208/1/60 (3,4,5)	awg	10 (6)									
Wire Size - 230/1/60 (3,4,5)	awg	10 (8)									
Wire Size - 208/3/60 (3,4,5)	awg	14(10)									
Wire Size - 230/3/60 (3,4,5)	awg	14 (10)									
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

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

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Model Number		BR3F	VR3F-6	VR3F-8	VR3F-12	HR3F-3	HR3F-6	HR3F-8	HR3F-12	HR3DF-8	HR3DF-12	
Configurator Number		CABRSA	CASRSA							CADRSA		
Description		Units	Product Data									
<b>Performance Data (6)</b>												
CFM Delivery @ 125 PSIG (7)	acfm	9.2							18.4			
CFM Delivery @ 175 PSIG (7)	acfm	8.2							16.4			
CFM Displacement @ 125 PSIG	icfm	16.4							32.8			
CFM Displacement @ 175 PSIG	icfm	15.6							31.2			
Maximum Pressure	psig	175										
Working Pressure Differential	psig	35										
Pump Operating Speed @ 125 PSIG	rpm	845										
Pump Operating Speed @ 175 PSIG	rpm	802										
Minimum Speed	rpm	400										
Maximum Speed	rpm	1050										
Cooling Air Flow @ 125 PSIG	cfm	973										
Cooling Air Flow @ 175 PSIG	cfm	923										
Heat Rejection	btu/hr	6700										
Noise Level (8)	dB(A)	75							78			
Aftercooler Approach Temp (9)	°F	50										
Min/Max Operating Temp	°F	32/104										
<b>Dimensions and Weight</b>												
Tank Size	gal	na	60	80	120	30	60	80	120	80	120	
Tank Configuration	na	na	Vertical			Horizontal						
Tank Capacity @ 125 PSIG	ft³	na	68.4	91.1	136.7	34.2	68.4	91.1	136.7	91.1	136.7	
Tank Capacity @ 175 PSIG	ft³	na	95.7	127.6	191.4	47.8	95.7	127.6	191.4	127.6	191.4	
Tank Pumping Time @ 125 PSIG (10)	min	na	7.41	9.89	14.83	3.71	7.41	9.89	14.83	4.94	7.41	
Tank Pumping Time @ 175 PSIG (10)	min	na	11.65	15.53	23.29	5.82	11.65	15.53	23.29	7.76	11.65	
Package Length	in.	38	33	35	43	41.5	51	66	71.5		75	
Package Width	in.	25	25	27	30	25	22.5		25.5	31	30	
Package Height	in.	29.5	77	75	80.5	44.5	49		53	49	56.5	
Total Package Weight	lbs.	230	425	455	725	320	425	485	725		950	
Pump Length	in.	20										
Pump Width	in.	16.5										
Pump Height	in.	23.25										
Pump Weight	lbs.	109										
Discharge Connection (11)	npt "	3/4	1/2 F		3/4 F	1/2 F			3/4 F			
		302CAB800	336CAS800	313CAS800	326CAS800	307CAS800	335CAS800	320CAS800	325CAS800	310CAD800	308CAD800	
Outline Drawing ID	na	F3231										
Operating/Parts Manual ID	na	F3231										

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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Due to Champion's continuing product development program, specifications and materials are subject to change without notice or obligation.

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