



**R Series 5HP
Engineering Data Sheet
Air Cooled, 60Hz**

**Eng. Data Sheet: CP-R3-V1
Date: 2/25/2015
Supersedes: NEW**

Model Number		BR5	VR5-6	VR5-8	VR5-12	HR5-3	HR5-6	HR5-8	HR5-12	HR5D-8	HR5D-12	HR5D-25
		CABRSA	CASRSA						CADRSA			
Configurator Number												
Description	Units	Product Data										
Compressor Pump												
Pump Model	na	R15B										
Number of Cylinders	na	2										
Bore & Stroke	in.	4-5/8 & 2-1/2 x 3										
Flywheel	OD in.	16.5										
Pulley 125 PSIG	OD in.	7.35										
Pulley 175 PSIG	OD in.	7.0										
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)	5 (3.73)										
Voltage (2)	na	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 - 208/1/60 (3)	amps	30.8										
Drive Motor Full Load Current - 230/1/60 (3)	amps	28.0										
Drive Motor Full Load Current - 208/3/60 (3)	amps	16.7										
Drive Motor Full Load Current - 230/3/60 (3)	amps	15.2										
Drive Motor Full Load Current - 460/3/60 (3)	amps	7.6										
Drive Motor Full Load Current - 575/3/60 (3)	amps	6.1										
Wire Size - 208/1/60 (3,4,5)	awg	8 (4)										
Wire Size - 230/1/60 (3,4,5)	awg	8 (4)										
Wire Size - 208/3/60 (3,4,5)	awg	10 (8)										
Wire Size - 230/3/60 (3,4,5)	awg	12 (8)										
Wire Size - 460/3/60 (3,4,5)	awg	14 (12)										
Wire Size - 575/3/60 (3,4,5)	awg	14 (12)										

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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Configurator Number		CABRSA			CASRSA						CADRSA		
Description	Units	Product Data											
Performance Data (6)													
CFM Delivery @ 125 PSIG (7)	acfm	19.1						38.2					
CFM Delivery @ 175 PSIG (7)	acfm	17.3						34.6					
CFM Displacement @ 125 PSIG	icfm	23.5						47.0					
CFM Displacement @ 175 PSIG	icfm	21.4						42.8					
Maximum Pressure	psig	175											
Working Pressure Differential	psig	35											
Pump Operating Speed @ 125 PSIG	rpm	750											
Pump Operating Speed @ 175 PSIG	rpm	710											
Minimum Speed	rpm	400											
Maximum Speed	rpm	1050											
Cooling Air Flow @ 125 PSIG	cfm	868											
Cooling Air Flow @ 175 PSIG	cfm	820											
Heat Rejection	btu/hr	12000											
Noise Level (8)	dB(A)	75						78					
Aftercooler Approach Temp (9)	°F	45											
Min/Max Operating Temp	°F	32/104											
Dimensions and Weight													
Tank Size	gal	na	60	80	120	30	60	80	120	80	120	250	
Tank Configuration	na	na	Vertical				Horizontal						
Tank Capacity @ 125 PSIG	ft³	na	68.4	91.1	137	34.2	68.4	91.1	137	91.1	137	284.9	
Tank Capacity @ 175 PSIG	ft³	na	95.7	128	191	47.8	95.7	128	191	128	191	398.8	
Tank Pumping Time @ 125 PSIG (10)	min	na	3.57	4.76	7.14	1.78	3.57	4.76	7.14	2.38	3.57	7.43	
Tank Pumping Time @ 175 PSIG (10)	min	na	5.52	7.36	11	2.76	5.52	7.36	11	3.68	5.52	11.5	
Package Length	in.	38	35	43	41.5	51	66	71.5	75	88.5			
Package Width	in.	25	25	27	30	25	22.5	25.5	31	30	31.25		
Package Height	in.	29.5	77	75	80.5	44.5	49	53	49	56.5	61.5		
Total Package Weight	lbs.	280	445	545	765	340	445	535	765	755	980	1150	
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	1/2	3/4 F			
Outline Drawing ID	na	302CAB800	336CAS800	313CAS800	326CAS800	307CAS800	335CAS800	320CAS800	325CAS800	310CAD800	308CAD800	309CAD800	
Operating/Parts Manual ID	na	F3231											

- 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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