

		R Series 20, 25, 30HP			Eng. Data Sheet: CP-R7-V2				
		Engineering Data Sheet			Date: 7/25/2019				
		Air Cooled, 60Hz			Supersedes: CP-R7-V1				
Model Number		BR20	HR20-12	HR20-24	HR20D-24	BR25			
Configurator Number		R2-30A							
Description	Units	Product Data							
Compressor Pump									
Pump Model	na	R70A							
Number of Cylinders	na	4							
Bore & Stroke	in.	6-1/4 (2) & 3-1/4(2) x 4							
Flywheel	OD in.	22							
Pulley 125 PSIG	OD in.	8.95	11.35						
Pulley 175 PSIG	OD in.	8.35	9.75	11.4					
Number of Stages	na	2							
Lubrication	na	Splash Lubricated							
Oil Capacity	qt.	6-1/3							
Oil Type	na	AEON AC-HC, ISO 100 Non-Detergent Industrial Lubricant							
Number of Belt Grooves	na	3							
Belt Section	na	B							
Crankcase	na	Cast Iron							
Bearings	na	Tapered Roller							
Cylinder	na	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)	20 (14.9)	25 (18.6)	30 (22.4)					
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	59.4	74.8	88.0					
Drive Motor Full Load Current - 230/3/60 (3)	amps	54	68	80.0					
Drive Motor Full Load Current - 460/3/60 (3)	amps	27	34	40.0					
Drive Motor Full Load Current - 575/3/60 (3)	amps	22	27	32.0					
Wire Size - 208/3/60 (3,4,5)	awg	3 (1/0)	2 (3/0)	1 (4/0)					
Wire Size - 230/3/60 (3,4,5)	awg	4 (1/0)	2 (2/0)	1 (4/0)					
Wire Size - 460/3/60 (3,4,5)	awg	8 (4)	6 (3)	6 (2)					
Wire Size - 575/3/60 (3,4,5)	awg	10 (6)	8 (4)	8 (4)					

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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		Air Cooled, 60Hz						Supersedes: CP-R7-V1		
Model Number		BR20	HR20-12	HR20-24	HR20D-24	BR25	HR25-12	HR25-24	HR25D-24	BR30
Configurator Number										HR30-12
Description	Units	Product Data								
Performance Data (6)										
CFM Delivery @ 125 PSIG (7)	acfm	91.9		183.8		102.1		204.2		102.1
CFM Delivery @ 175 PSIG (7)	acfm	76.7		153.4		90.1		180.2		101
CFM Displacement @ 125 PSIG	icfm	109.4		218.8		126.4		252.8		252.8
CFM Displacement @ 175 PSIG	icfm	93		186		109.4		218.8		126.4
Maximum Pressure	psig					175				
Working Pressure Differential	psig					35				
Pump Operating Speed @ 125 PSIG	rpm		770					890		
Pump Operating Speed @ 175 PSIG	rpm		655			770			890	
Minimum Speed	rpm					425				
Maximum Speed	rpm					1000				
Cooling Air Flow @ 125 PSIG	cfm		2580					2980		
Cooling Air Flow @ 175 PSIG	cfm		2195			2580			2980	
Heat Rejection	btu/hr		44700			55970			67160	
Aftercooler Approach Temp	°F					30				
Noise Level (8)	dB(A)	80		82		84		86		84
Min/Max Operating Temp	°F					32 / 104				86
Dimensions and Weight										
Tank Size	gal	na	120	240	240	na	120	240	240	na
Tank Configuration	na	Base	Horizontal			Base	Horizontal			Base
Tank Capacity @ 125 PSIG	ft³	na	136.7	284.9		na	136.7	284.9		na
Tank Capacity @ 175 PSIG	ft³	na	191.4	398.8		na	191.4	398.8		na
Tank Pumping Time @ 125 PSIG (9)	min	na	1.5	3.1	1.5	na	1.3	2.8	1.4	na
Tank Pumping Time @ 175 PSIG (9)	min	na	2.5	5.2	2.6	na	2.1	4.4	2.2	na
Package Length	in.	59.1	73.3	89.6	89.5	59.1	73.3	89.6	89.5	59.1
Package Width	in.	33.6	36.3	36.3	66.5	33.6	36.3	36.3	66.5	33.6
Package Height	in.	39.8	65.0	71.3	75.8	39.8	65.0	71.3	75.8	39.8
Approx. Ship Weight	lbs.	1000	1517	1871	2845.0	1020	1557	1911	2940.0	1060
Pump Length	in.						26.7			
Pump Width	in.						33.5			
Pump Height	in.						33.75			
Pump Weight	lbs.						570			
Discharge Connection (10)	npt "						1-1/4 F			
Operating/Parts Manual ID	na						CQGF3457			

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) Tank pumping time is based off 0 PSIG to fully pressurized.

10) M = Male connection, F=Female connection; the BRA20-30 have a 1°F connection with an air cooled after cooler.

NOTE: Duplex models take quantities of 2 on applicable items such as motors, pump, oil quantity, etc.