

		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		BR20HR20-12HR20-24HR20D-24BR25HR25-12HR25-24HR25D-24BR30HR30-12HR30-24HR30D-24											
Configurator Number		R2-30A											
Description	Units	Product Data											
Compressor Pump													
Pump Model	na	R70A											
Number of Cylinders	na	4											
Bore & Stroke	mm.	158.75 (2) & 82.55 (2) x 101.6											
Flywheel	OD mm.	558.8											
Pulley 125 PSIG	OD mm.	227.33								288.29			
Pulley 175 PSIG	OD mm.	212.09				247.65				289.56			
Number of Stages	na	2											
Lubrication	na	Splash Lubricated											
Oil Capacity	liters	5.990712											
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	kw	14.9				18.6				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)	milliamps	59400				74800				88000			
Drive Motor Full Load Current - 230/3/60 (3)	milliamps	54000				68000				80000			
Drive Motor Full Load Current - 460/3/60 (3)	milliamps	27000				34000				40000			
Drive Motor Full Load Current - 575/3/60 (3)	milliamps	22000				27000				32000			
Wire Size - 208/3/60 (3,4,5)	mm2	26.7 (53.5)				33.7 (85.0)				42.4 (107.2)			
Wire Size - 230/3/60 (3,4,5)	mm2	4 (53.5)				2 (67.4)				1 (107.2)			
Wire Size - 460/3/60 (3,4,5)	mm2	8.4 (21.2)				13.3 (26.7)				13.3 (33.6)			
Wire Size - 575/3/60 (3,4,5)	mm2	5.3 (13.3)				8.4 (21.2)				8.4 (21.2)			

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	HR30-12	HR30-24	HR30D-24
Configurator Number		R2-30A											
Description	Units	Product Data											
Performance Data (6)													
cm/h Delivery @ 8.6 bar (7)	cubic m/h	156.23	312.46	173.57	347.14	173.57	347.14	173.57	347.14	173.57	347.14	173.57	347.14
cm/h Delivery @ 12 bar (7)	cubic m/h	130.39	260.78	153.17	306.34	171.7	343.4	171.7	343.4	171.7	343.4	171.7	343.4
cm/h Displacement @ 8.6 bar	cubic m/h	185.98	371.96	214.88	429.76	214.88	429.76	214.88	429.76	214.88	429.76	214.88	429.76
cm/h Displacement @ 12 bar	cubic m/h	158.1	316.2	185.98	371.96	214.88	429.76	214.88	429.76	214.88	429.76	214.88	429.76
Maximum Pressure	psig	12											
Working Pressure Differential	psig	2.41											
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 @ 8.6 bar	cubic m/h	4386				5066							
Cooling Air Flow @ 8.6 bar	cubic m/h	3731.5				4386				5066			
Heat Rejection	btu/hr	44700				55970				67160			
Aftercooler Approach Temp	°C	-1.1											
Noise Level (8)	dB(A)	80	82	84	86	84	86	84	86	84	86	84	86
Min/Max Operating Temp	°C	0 / 40											
Dimensions and Weight													
Tank Size	liters	na	454	946	946	na	454	946	946	na	454	946	946
Tank Configuration	na	Base	Horizontal			Base	Horizontal			Base	Horizontal		
Tank Capacity @ 8.6 bar	m³	na	3.87	8.07	0	na	3.87	8.07	284.9	na	3.87	8.07	0
Tank Capacity @ 12 bar	m³	na	5.4	11.3	398.8	na	5.4	11.3	398.8	na	5.4	11.3	0
Tank Pumping Time @ 8.6 bar (9)	min	na	1.48	3.09	1.54	na	1.34	2.78	1.39	na	1.33	2.78	1.39
Tank Pumping Time @ 12 bar (9)	min	na	2.49	5.19	2.59	na	2.12	4.41	2.21	na	1.89	3.94	1.97
Package Length	mm.	1500.9	1861.8	2275.8	2273.3	1500.9	1861.8	2275.8	2273.3	1500.9	1861.8	2275.8	2273.3
Package Width	mm.	852.9	922.0	920.8	1689.9	852.9	922.0	922.0	1689.9	852.9	921.0	922.0	1689.9
Package Height	mm.	1009.9	1651.0	1811.0	1924.6	1009.9	1651.0	1811.0	1924.6	1009.9	1651.0	1811.0	1924.6
Total Package Weight	kg.	453.6	688.1	848.7	1290.5	462.7	706.2	866.8	1333.6	480.8	724.4	885.0	1368.9
Pump Length	mm.	678.2											
Pump Width	mm.	850.9											
Pump Height	mm.	857.3											
Pump Weight	lbs.	258.5											
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.