


<b>CHAMPION</b>		<b>R-Series Gas Engine Drive - 13/14 HP</b>					<b>Eng. Data Sheet: CP-ENGR1-V1</b>				
		<b>Engineering Data Sheet</b>					<b>Date: 6/22/2022</b>				
		<b>Air Cooled</b>					<b>Supercedes: NEW</b>				
<b>Model Number</b>		<b>BGR7H</b>	<b>HGR7-LPH</b>	<b>HGR7-3H</b>	<b>HGR7-6H</b>	<b>HGR7-8H</b>	<b>BGR7K</b>	<b>HGR7-LPK</b>	<b>HGR7-3K</b>	<b>HGR7-6K</b>	<b>HGR7-8K</b>
<b>Description</b>	<b>Units</b>	<b>Product Data</b>									
<b>Compressor Pump</b>											
Pump Model	na	R-15B									
Number of Cylinders	na	2									
Bore & Stroke	in.	4-5/8 & 2-1/2 x 2									
Flywheel	OD in.	16.5									
Pulley 175 PSIG	OD in.	4.95									
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	BX									
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>Gas Engine Drive</b>											
Engine Power	hp (kw)	13 (9.7)					14 (10.4)				
Engine Manufacturer/Model	na	Honda GX390					Kohler CH440				
Number of Cylinders	na	1					1				
Bore & Stroke	in.	3-1/2 x 2-1/2					3-1/2 x 2-7/10				
Engine Fuel Tank Capacity	gal.	1.6					1.9				
Fuel Consumption Per Hour	gal./hr	1					1.17				
Oil Capacity	qt.	1.2					1.2				

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Description	Units	Product Data									
<b>Performance Data (5)</b>											
CFM Delivery @ 175 PSIG (6)	acfm	23.2									
CFM Displacement @ 175 PSIG	icfm	29.9									
Maximum Pressure	psig	175									
Working Pressure Differential	psig	35									
Pump Operating Speed @ 175 PSIG	rpm	1025									
Minimum Speed	rpm	375									
Maximum Speed	rpm	1050									
Cooling Air Flow @ 175 PSIG	cfm	1225									
Heat Rejection	btu/hr	1175									
Noise Level (7)	dB(A)	Follow up with Engine Suppliers									
Min/Max Operating Temp	°F	32/104									
<b>Dimensions and Weight</b>											
Tank Size	gal	na	4 (x2)	30	60	80	na	4 (x2)	30	60	80
Tank Configuration	na	na	Horizontal				na	Horizontal			
Tank Capacity @ 175 PSIG	ft³	na	13.8	51.8	103.5	138.0	na	13.8	51.8	103.5	138.0
Tank Pumping Time @ 175 PSIG (9)	min	na	0.6	2.2	4.5	5.9	na	0.6	2.2	4.5	5.9
Package Length	in.	41.2	41.3	41.6	52.5	67.5	41.2	41.3	41.6	52.5	67.5
Package Width	in.	20.5	22.3	20.5	21.3	21.3	20.5	22.3	20.5	21.3	21.3
Package Height	in.	29.3	37.6	45.5	49.1	49.1	29.3	37.6	45.5	49.1	49.1
Total Package Weight	lbs.	400	500	485	585	640	400	500	485	585	640
Pump Length	in.	20.0									
Pump Width	in.	16.5									
Pump Height	in.	23.3									
Pump Weight	lbs.	109									
Parts Manual ID	na	CQF3454									
Operating Manual ID	na	CQF3474									

5) All units tested in accordance with CAGI/PNEUROP Acceptance Test Code PN2CPTC2.

6) acfm is actual cubic feet per minute at inlet conditions.

7) Sound levels are based off estimated dB(A) .

8) Approach temperature is the temperature above the discharge air and above the ambient air of the aftercooler.

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