

Engine Model		Hydrogen Engine Center Oxx Power 4.9L I-6 Cyl 11:1 CR									
Engine Performance Data		Natural Gas					LP				
		WOT		Prime Power		WOT		Prime Power			
1	Governed Engine Speed	RPM	1800	1500	1800	1500	1800	1500	1800	1500	
2	Engine Power Gross	BHP	78.7	68			91.5	77			
2.1	Engine Power SAE J 1349	BHP									
3	Engine Power Govern	BHP									
4	Break Mean Effective Pressure	PSI	115	120			134	135			
5	Piston speed	ft/min	1193	995			1193	995			
6	Friction Horsepower	HP									
7	Intake Air Flow	CFM	154	129			132	110			
8	Exhaust Gas temp.	°F	1190	1160			1298	1280			
9	Exhaust Gas Flow	CFM	404	333			433	347			
10	Engine Water Flow (Coolant)										
11	Without thermostat	GPM	17	9			17	9			
12	With thermostat	GPM	15	7			15	7			
13	Radiated Heat to Ambient	Btu/Min	937	763			1462	824			
14	Heat Rejection to Coolant	Btu/Min	2811	2290			4388	2417			
15	Heat Rejection to Exhaust	Btu/Min	3560	2672			4534	2636			
16	Fuel Consumption	CFH	560	490			373	210			
16.1	Fuel Consumption										
17	Specific Fuel Consumption	CHF/HP	7.12	7.2059			4.08	2.727			
18	Air to Fuel Ratio (measured)	AFR	16.3:1	15.4:1			14.0:1	13.82:1			
19	Ignition Timing	BTDC	21	24	21	24	17	17	17	17	
20	<b>Without Power Deration</b>										
20.1	Ambient Temperature	deg F	51								
20.2	Barometric Pressure Wet		N/A								
20.3	Barometric Pressure Dry		29.81								
20.4	Altitude	Ft	1217								
20.5	Humidity	%	75								
<b>Operation at elevated Temperature and Altitude</b>											
21	<b>Power Deration</b>										
21.1	Altitude deration per 1000 ft above 325ft	%	4% per 1000 ft above 500ft								
21.2	Temperature deration per 10°F above xxx F	%	1% per 10deg F above 77 deg F								
23	Intake restriction derate	%									
24	Exhaust restriction derate	%	2% per 1.0 in Hg								
Test engine equipped with split exhaust manifolds, log intake, Impco mixer and throttle body (45 mm bore) Engine speed set full load WOT at 1800 and 1500 RPM on dynamometer											
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