

PSR Jet System specifications

Turbine engine		
Size (diameter, length)	138x381 mm	5.4x15 Inch
Weight (containment included)	4564 g	10.1 Lbs
System airborne weight		
Fuel system (gas bottle included)	2904 g	6.4 Lbs
Cockpit instrument panel	220 g	0.5 Lbs
Electronic Control Unit	528 g	1.2 Lbs
Cable wiring	914 g	2.0 Lbs
Power supply		
Dry lead acid battery 12 Volt 10 Amp	4058 g	8.9 Lbs
Retraction system with box		
Box size (Length, height, width)	420x170x145 mm	16.5x6.7x5.7 Inch
Weight	2186 g	4,8 Lbs
RPM settings		
Maximum RPM (Red line 5 min)	108.500	
Pressure ratio	3.8 : 1	
Mass flow	450 g/sec	0.99 Lb/sec
Thrust	230N / 23.5Kp	51.7 Lbf
Fuel Consumption @ S.T.P. *	640 g/min	22.5 oz/min
Normal RPM (continuous setting)	100.000	
Pressure ratio	3 : 1	
Mass flow	365 g/sec	0.83 Lb/sec
Thrust	188 N / 19.2Kp	42.2 Lbf
Fuel Consumption @ S.T.P. *	500 g/min	17.6 oz/min
Idle RPM	36.000	
Thrust @ idle rpm	8 N	1.8 Lbf
Throttle response from Idle RPM to Max RPM	3.5 Seconds.	
Throttle response from 30% throttle to Max RPM	1.5 Seconds.	
Throttle response from 50% throttle to Max RPM	0.5 Second.	
E-start time **	10-15 seconds	
Normal Exhaust Gas Temperature @ max RPM	700 °C	1290 F
Maximum Exhaust Gas Temperature @ max RPM	750 °C	1380 F
Fuel type		
Start (ignition)	Propane	
Start to Idle	Propane + Kerosene	
Idle, continuous and max. RPM	Kerosene	
Fuel mix Kerosene		
Jet A1 with 4.5% turbine oil		
Suitable oils for our range of turbines are:		
	AeroShell 500	
	AeroShell 560	
	Mobil Jet oil II	
* S.T.P. Standard Temperature & Pressure		
Temperature	15 Degrees Celcius	59 Degrees Fahrenheit
Pressure	1013 Mbar	29.91 in
** Fuel system primed from last engine run		
Time measured from ignition to reaching idle RPM		
Fully charged battery.		

