

FSM TESTING, DARWIN AUSTRALIA

Pilot: Chris Jokinen

Launch Alt: Sea level

Air conditions: Tropical, adv temp 34C, adv humidity 55%

Wing: Apco Thrust 2009

Engine: Air Conception Hybrid 130cc

Carburetor: Star (clone of a Tillitson)

Carb inlet distance from tank base: 770 mm

	Prior to fitting	After Fitting
Cruising temp	204C	190C
Idle temp	70C	75C
Max prolonged RPM without overheating	7,200	7,900
Level flight RPM	6,400	6,800 (prop rebuild from crash between measurements)
Max RPM	10,400	10,800 (max engine RPM specs 9,800)
RPM where engine runs rough eg. "4 stroking"	3,500 to 7,100	2,600 to 3,600 (not 4 stroking, just vibrates)
Acceleration from idle	Slight hesitation then fast	Zero hesitation, extremely fast
Priming method	Squeeze primer bulb until fuel enters engine	Pour fuel down carb throat
Average fuel usage	3.5L P/H	3.8L P/H

Impressed Points:

- The insane speed of transition between low and high jets, along with fast acceleration.
- Even with a hole in vacuum line engine still ran better and cooler than normal
- The resolution I have in the lower RPM range
- The smoothness of the mid range and level flight.