

AUTOGYRO CALIDUS STUDY SHEET

Airspeeds		Weight & Balance	
Max Taxi Speed	8 Kts	Max Takeoff Weight	1212 lbs
Vx	43 Kts	Empty Weight	651 lbs
Vy	49 Kts	Useful Load	561 lbs
Normal Climb	54 Kts	Payload with Full Fuel	442 lbs
Best Range	70 Kts		
Approach	54 Kts	Max Weight in Front/Rear Seat	275 lbs
Best Glide (1:3)	49 kts (500-800 fpm)	Minimum Front Seat Pax Wt	140 lbs
Vne	100 Kts	Max Weight in each storage compartment	5.5 lbs
Va	70 kts		
Vturb	61 Kts	Performance	
Max Wind Speed	40 Kts	Takeoff Roll	394 ft
Max Demonstrated Crosswind	20 Kts	Takeoff Distance	984 ft
Max Tailwind For Landing	5 Kts	Rate of Climb at Max Takeoff Weight	787 fpm
Minimum Horizontal Speed - TOP	22 kts	Landing Distance	492 ft
Minimum Horizontal Speed - MCP	27 kts	Landing Roll	65 ft
Fuel		Rotor Limitations	
Fuel Capacity	19.8 Gals	RPM that cyclic required to be in the full forward position	< 100 rpms
		Normal Pre-Rotation Speed	200 rpms
Fuel Burn		Max Pre-Rotation Speed	240 rpms
Max TOP	39" MAP / 8.7 gph		
Max MCP	35" MAP / 6.9 gph		
75% MCP	31" MAP / 5.3 gph		
65% MCP	29" MAP / 4.6 gph		
55% MCP	28" MAP / 3.3 gph		
Warning Lights			
Low Volt	Battery voltage below safe value		
Fan	Engine cooling fan is on; reduce power or increase speed		
Gen - continuously lit	Gen is offline; shed unnecessary components; land within 15 mins; be prepared for engine failure.		
Gen - pulsed	Normal operation		
Warn - continuously lit	Max boost pressure exceeded; reduce power		
Warn - blinking	5 min takeoff power limit has been exceeded; reduce power		
Caution	Turbo/boost control malfunction: land and be prepared for engine failure		
Revision 12/2013 David M. Klein			