

Aquila A210 D-ENKR / D-ESGN

Speeds

Take-off run, rotation Flaps T/O Vr	50 KIAS
Best angle of climb Flaps T/O Vx	57 KIAS
Best rate of climb Flaps CRUISE Vy	65 KIAS
Best gliding angle Flaps CRUISE	78 KIAS
Intermediate approach Flaps CRUISE	90 KIAS
Final approach Flaps T/O or LDG	60 KIAS

Go-around, Full Power Flaps T/O	65 KIAS
Manoeuvring Speed MTOW 750 kg, VA	112 KIAS
Max X-Wind START	15 KIAS
Max X-Wind LDG	15 KIAS

Take-Off Distance, MSL, 15°C, MTOW, Flaps T/O, no Wind

Take off ground roll	250 m
Take off distance over a 50 ft obstacle	440 m

Landing Distance, MSL, 10°C, MTOW, Flaps LDG, no Wind

Ground roll	210 m
over 50 ft obstacle	500 m

Fuel

Fuelgrade	EN228 Super, Super Plus 95 ROZ, bleifrei, AVGAS 100LL (blau)	
Specific Gravity	0,72 kg/ Liter	
Tanks Fuel Capacity	120 Liter	
Usable Fuel	109,6 Liter	
Fuel Consumption Cruise	20 Liter/h 0,33 Liter/min	
For Fuel calculation:		
Additional 0:15	5 Liter	
Dep.+App. 0:10	3,3 Liter	6,6
Altern Airport 0:20	Liter	9,9 Liter
Reserve 0:30		

Weight and Balance

Empty Mass	503,8 Kg D-ENKR 510,4 Kg D-ESGN	
Moment Arm	0,431m D-ENKR 0,428m D-ESGN	
Moment	217,11 kgm KR 218,63 kgm GN	
Seat Pilot + Cockpit	x 0,515 m	
Baggage Comp. 1 max 40 kg	x 1,3 m	
Fuel 109,60 Liter = 78,91 kg	x 0,325 m	78,91 x 0,325=25,65
MTOW	750,00 kg	
Max LDG Mass	750,00 kg	
Max Payload incl. Fuel	246,0 kg D-ENKR 239,6 kg D-ESGN	
Max Payld full Fuel	167,09 kg D-ENKR 160,69 kg D-ESGN	

Druck- höhe	Stand- Temp	Triebwerksleistung in % der maximalen Dauerleistung MCP														
		55%			65%			75%			85%			MCP		
H	T	RPM	MP	F/F	RPM	MP	F/F	RPM	MP	F/F	RPM	MP	F/F	RPM	MP	F/F
(ft)	(°C)	(U/Mir (in Hg (l/h))			(U/Mir (in Hg (l/h))			(U/Mir (in Hg (l/h))			(U/Mir (in Hg (l/h))			(U/Mir (in Hg (l/h))		
0	15	1900	24,6	14,0	2000	25,7	15,6	2100	27,0	21,0	2260	27,7	24,0	2260	28,0	26,0
2000	11	1900	24,0	15,0	2000	24,7	16,0	2200	25,7	21,3	2260	26,7	22,0	2260	27,0	26,0
4000	7	1900	23,3	16,0	2100	23,3	16,8	2260	24,3	21,5	2260	25,2	22,0			
6000	3	2000	22,0	17,0	2200	22,7	19,3	2260	23,3	22,3						
8000	-1	2100	21,0	18,0	2200	21,5	21,5	2260	21,5	23,0						
10000	-5	2200	19,7	19,0	2260	20,1	22,0									
12000	-9	2260	18,5	19,0												

**Checkliste und Daten unverbindlich!!! Verbindliche Angaben und Werte siehe Herstellerhandbuch