

DA42 TDI Twin Star

Power Plant	
Engine	2x THIELERT Centurion 1.7 (à135 hp)
Propeller	2x MT 3-blade Hydraulic Constant Speed Propeller

Performance/Consumption		
Take-off Distance (Ground Roll) MTOW	350 m	1,148 ft
Take-off Distance (50 ft Obstacle) MTOW	530 m	1,739 ft
Rate of Climb at Sea Level MTOW	5.8 m/s	1,132 fpm
Rate of Climb in 10.000 ft MTOW	4.8 m/s	936 fpm
Max. Operating Altitude	5,486 m	18,000 ft
Max. Air Speed	359 km/h KIAS	194 kts KIAS
Cruise Speed @ 50% in 18.000 ft	250 km/h TAS	135 kts TAS
Fuel Consumption	26.9 lt/h	7.1 US gal/hr
Cruise Speed @ 90% in 10.000 ft	304 km/h TAS	164 kts TAS
Fuel Consumption	54.1 lt/h	14.3 US gal/hr
Cruise Speed @ 60% in 10.000 ft	256 km/h TAS	138 kts TAS
Fuel Consumption	30.3 lt/h	8.0 US gal/hr
Range @ 60% in 10.000 ft	1,661 km/2,361 km	897 nm/1,275 nm
Standard/Long Range Tank		

Dimensions/Weights		
Length	8.56 m	28 ft 1 in
Height	2.49 m	8 ft 2 in
Wing Span	13.42 m	44 ft
Wing Area	16.29 m ²	175.3 sq ft
Seats	4	4
Empty Weight	1,260 kg	2,778 lbs
Max. Take-off Weight (MTOW)	1,700 kg	3,748 lbs
Payload	440 kg	970 lbs
Fuel Capacity Standard/Long Range Tank	197 lt/280 lt	52 US gal/74 US gal
Fuel Grades	Diesel/Kerosin ¹⁾	Diesel/Kerosene ¹⁾

¹⁾ According to EU fuel standards

Specifications apply to standard equipped aircraft, if not otherwise stated. Specifications may change without notice. Status: April 1, 2005

