

2001 King Air C90B

Performance / Specifications

Raytheon Aircraft

Maximum Speed (16,000 FT At 8,500 LB) 247 KTS

Cruise Speeds (TAS At 8,500 LB)

Maximum Cruise Power (1,900 RPM)

16,000 FT	247 KTS (284 MPH)
20,000 FT	244 KTS (281 MPH)
24,000 FT	239 KTS (275 MPH)
29,000 FT	222 KTS (255 MPH)

Maximum Range Power (1,900 RPM)

16,000 FT	186 KTS (214 MPH)
20,000 FT	190 KTS (219 MPH)
24,000 FT	195 KTS (224 MPH)
29,000 FT	199 KTS (229 MPH)

Range

Allowance: Start, Taxi, Take-Off, Climb, Cruise, Descent, NBAA IFR Reserve Profile (With 100 NM Alternate)
Loading: 1 Pilot (@ 200 LB), + 4 Passengers (800 LB Payload), Maximum Available Fuel
Conditions: Zero Wind, 6,810 LB Empty Weight, 10,100 LB Take-Off Weight

Maximum Cruise Power (1,900 RPM)

16,000 FT	750 NM (863 SM)
20,000 FT	830 NM (955 SM)
24,000 FT	913 NM (1,051 SM)
29,000 FT	1,034 NM (1,190 SM)

Maximum Range Power (1,900 RPM)

16,000 FT	915 NM (1,053 SM)
20,000 FT	985 NM (1,134 SM)
24,000 FT	1,040 NM (1,197 SM)
29,000 FT	1,069 NM (1,230 SM)

Rate Of Climb At Sea Level With Two Engines

At 10,100 LB	2,010 FT / MIN
At 8,000 LB	2,750 FT / MIN

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Rate Of Climb At Sea Level With One Engine

At 10,100 LB	495 FT / MIN
At 8,000 LB	840 FT / MIN

Service Ceiling - Two Engines (100 FT /MIN)

At 10,100 LB	28,900 FT
At 8,000 LB	Above 30,000 FT

Service Ceiling - One Engine (50 FT /MIN)

At 10,100 LB	13,100 FT
At 8,000 LB	18,700 FT

Stall Speeds At 10,100 LB With Idle Power

Flaps Down	78 KTS
Flaps Approach	83 KTS
Flaps Up	88 KTS

Take-Off Distance At 10,100 LB With Flaps Up

Rotation Speed	97 KTS
Ground Roll	2,033 FT
Total Distance Over 50 FT Obstacle	2,710 FT

Accelerate - Stop Distance At 10,100 LB With Flaps Up

Decision Speed	97 KTS
Total Distance	3,650 FT

Accelerate - Go Distance At 10,100 LB With Flaps Up

Rotation Speed	97 KTS
Total Distance Over 35 FT Obstacle	3,650 FT

Landing Distance At 9,600 LB With Flaps Down (Without Reversing), ISA, Sea Level

Approach Speed	101 KTS
Ground Roll	1,260 FT
Total Distance Over 50 FT Obstacle	2,290 FT

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Weights

Maximum Ramp Weight	10,160 LB
Maximum Take-Off Weight	10,100 LB
Maximum Landing Weight	9,600 LB
Basic Empty Weight	6,810 LB
Useful Load (Standard Airplane)	3,150 LB
Maximum Fuel (384 Gal At 6.7 LB /Gal)	2,573 LB

Wing Area And Loadings

Wing Area	293.94 SQ FT
Wing Loading	34.4 LB / SQ FT
Power Loading	9.2 LB / SHP

Dimensions

Wing Span	50 FT 3 IN
Stabilizer Span	17 FT 3 IN
Length	35 FT 6 IN
Height To Top Of Horizontal Stabilizer	14 FT 3 IN
Cockpit Height	4 FT 7 IN
Cockpit Width	4 FT 6 IN
Cockpit Door Width	19 IN
Cockpit Volume	79.6 CU FT
Cabin Length (Excludes Pilot's Compartment; Includes Aft Baggage)	12 FT 7 IN
Cabin Height	4 FT 9 IN
Cabin Width	4 FT 6 IN
Cabin Floor Width	49 IN
Cabin Volume (Excludes Pilot's Compartment And Aft Baggage)	179 CU FT
Entrance Door	26.75 IN x 51.5 IN
Aft Baggage Capacity (Lavatory Seat Not Occupied)	48.3 CU FT (350 LB)
Aft Baggage Capacity (Lavatory Seat Occupied)	48.3 CU FT (350 LB)

Pressurization

(5.0 PSI Differential)	Cabin Altitude
Actual Aircraft Altitude 11,065 FT	Sea Level
Actual Aircraft Altitude 23,120 FT	8,000 FT
Actual Aircraft Altitude 26,500 FT	10,000 FT

Performance Figures Are Based On The Specified Weights Derived From Flight Tests Conducted By Raytheon Aircraft Company Under Factory Controlled Conditions And Will Vary With Individual Aircraft And Other Factors Affecting Flight Performance