

King Air C90GT Weight Statement

Design Weights

Max. Ramp Weight	10,160 lb.	(4,608 kg.)
Max. Takeoff Weight	10,100 lb.	(4,581 kg.)
Max. Landing Weight	9,600 lb.	(4,354 kg.)
Max. Zero Fuel Weight *	9,368 lb.	(4,249 kg.)
Fuel Capacity	2,573 lb.	(1,167 kg.)

* No Flight Manual zero fuel weight. Zero fuel weight estimated for comparison purposes only. Calculated weight based on MTOW minus fuel required to fly 1.5 hours at HSC.

Weight Breakdown

Typically Equipped Basic Empty Weight **	6,950 lb.	(3,152 kg.)
1 pilot.....	200 lb.	(91 kg.)

Typically Equipped Basic Operating Weight 7,150 lb. (3,243 kg.)

Max. Payload ***	1,934 lb.	(877 kg.)
Useful Load	3,010 lb.	(1,365 kg.)

** Typically Equipped Basic Empty Weight includes standard interior, avionics, unusable fuel and oil

*** As limited by Max. Landing Weight with NBAA IFR reserves (100 nm alternate)

Specifications and Performance

Characteristics

Seating (Crew + Pax)	1 + 5 / 12
Wing Loading	34.4 lb./sq. ft.
Power Loading	9.18 lb./SHP
Noise: Takeoff.....	74.3 dBA

External Dimensions

Length	35 ft. 6 in.	(10.82 m)
Height.....	14 ft. 3 in.	(4.34 m)
Span	50 ft. 3 in.	(15.32 m)

Engines

Manufacturer	2 P&WC
Model.....	PT6A-135A
Output	550 SHP/ISA+30°C
Inspection Interval	3,600 hrs.

Weights

Max Ramp.....	10,160 lb.	(4,608 kg.)
Max Takeoff	10,100 lb.	(4,581 kg.)
Max Landing.....	9,600 lb.	(4,354 kg.)
Max Zero Fuel *	9,368 lb.	(4,249 kg.)
Typically Equipped Basic Operating	7,150 lb.	(3,243 kg.)

** No Flight Manual zero fuel weight. Zero fuel weight estimated for comparison purposes only. Calculated weight based on MTOW minus fuel required to fly 1.5 hours at HSC.*

Payload / Capacities

Max Payload **.....	1,934 lb.	(877 kg.)
Useful Load	3,010 lb.	(1,365 kg.)
Max Fuel Capacity	2,573 lb.	(1,167 kg.)
(1 US gal = 6.7 lb./US gal.).....	384 US gal.	
Fuel w/max payload.....	978 lb.	(444 kg.)

**** As limited by Max. Landing Weight with NBAA IFR reserves (100 nm alternate)*

Specifications and Performance (continued)

Cabin Dimensions

Length	12 ft. 7 in.	(3.84 m)
Height	4 ft. 9 in.	(1.45 m)
Width.....	4 ft. 6 in.	(1.37 m)

Cabin Volume

Cockpit.....	80 cu. ft.	(2.27 cu. m)
Passenger Cabin	227 cu. ft.	(6.43 cu. m)
(including lav. & bag)		
Total Volume	307 cu. ft.	(8.7 cu. m)

Baggage Capacity

Internal - Heated, Pressurized	48.3 cu. ft./350 lb.	(1.37 cu. m/159 kg.)
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Pressurization

Differential.....	5.0 PSI
Sea Level Cabin To (ft.)	11,065 ft.

Specifications and Performance (continued)

Airport Performance

Takeoff Field Length (Flaps Approach)

Max. TO Wt., SL, ISA	2,392 ft.	(729 m)
Max. TO Wt., 5,000 ft. elevation, 25°C	3,372 ft.	(1,028 m)

Accelerate-Stop Distance (Flaps Approach)

Max. TO Wt., SL, ISA	3,382 ft.	(1,031 m)
Max. TO Wt., 5,000 ft. elevation, 25°C	4,411 ft.	(1,344 m)

Landing Distance

Max Landing Wt., SL, ISA	2,355 ft.	(717 m)
V _{APPROACH}	101 kt.	

Climb Performance (Max Takeoff Weight)

Time to Climb / Altitude	17 min / FL 250	
Climb Rate (Flaps Up)	1,953 fpm	(595 m/min)
Climb Gradient (Flaps Up).....	715 ft/ nm	(118 m/km)
Engine-out Rate (Flaps Up)	474 fpm	(144 m/min)
Engine-out Gradient (Flaps Up)	259 ft/nm	(43 m/km)

Ceilings

Certified	30,000 ft.	(9,144 m)
All Engine Service	30,000 ft.	(9,144 m)
Engine-out Service	19,170 ft.	(5,843 m)

Cruise Performance

High Speed Cruise

Speed	270 kt/311 mph	(500 km/hr)
Fuel Flow	612 lb./hr.	(278 kg./hr)
Altitude	FL 200	

Long Range Cruise

Speed	208 kt/239 mph	(385 km/hr)
Fuel Flow	332 lb./hr.	(151 kg/hr)
Altitude	FL 260	

Specifications and Performance (continued)

Maximum Range Performance (NBAA IFR reserves (w/100 nm alternate) - HSC

Maximum Payload with Available Fuel (1,934 lb. payload)

Range	229 nm	(424 km)
Average Speed	222 kt.	(411 km/hr)
Trip Fuel.....	561 lb.	(254 kg.)

Maximum Fuel with Available Payload (437 lb. payload)

Range	1,026 nm	(1,900 km)
Average Speed	254 kt.	(470 km/hr)
Trip Fuel.....	2,074 lb.	(941 kg.)

4 passengers (800 lb. payload)

Range	831 nm	(1,539 km)
Average Speed	251 kt.	(465 km/hr)
Trip Fuel.....	1,707 lb.	(774 kg.)

Ferry (Zero payload)

Range	1,036 nm	(1,919 km)
Average Speed	256 kt.	(474 km/hr)
Trip Fuel.....	2,078 lb.	(943 kg.)

Mission Performance (4 passengers)

300 nm mission

Flight Time	1 hr. 15 min	
Trip Fuel.....	745 lb.	(338 kg.)
Flight Level.....	FL 210	

600 nm mission

Flight Time	2 hr. 23 min	
Trip Fuel.....	1,347 lb.	(611 kg.)
Flight Level.....	FL 230	

1,000 nm mission (2 passengers)

Flight Time	3 hr. 56 min	
Trip Fuel.....	2,022 lb.	(917 kg.)
Flight Level.....	FL 260	