

Citabria Explorer

Model 7GCBC

Specifications



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| Powerplant | Lycoming O-320-B2B |
| Horse Power @ RPM | 160 @ 2700 rpm |
| Recommended Engine TBO | 2000 hours |
| Propeller | Sensenich 74DM6S8-1 |
| Propeller Diameter | 73 in. |
| Length | 22.1 ft. |
| Height | 7.7 ft. |
| Wingspan | 34.5 ft. |
| Wing Area | 171.86 sq. ft. |
| Wing Loading | 10.474 lb. / sq. ft. |
| Power Loading | 11.25 lb. / HP |
| Seats | 2, Tandem |
| Cabin Length | 8 ft. 10 in. |
| Cabin Width | 2 ft. 6 in. |
| Cabin Height | 3 ft. 11 in. |
| Empty Weight (typical) | 1250 lbs. |
| Maximum Gross Weight | 1800 lbs. |
| Useful Load | 550 lbs. |
| Payload with Full Fuel | 340 lbs. |
| Fuel Capacity | 36 gal. (35 gal. Usable) |
| Oil Capacity | 8 quarts |
| Baggage Capacity | 100 lbs. (10.4 cubic feet) |

Performance:

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| Acrobatic Limit Loading | +5, -2 g's |
| Takeoff Distance, Ground Roll | 412 ft. |
| Takeoff Distance Over 50-ft Obstacle | 756 ft. |
| Maximum Demonstrated Crosswind Component | 17 kts. |
| Rate of Climb, Sea Level | 1130 fpm |
| Maximum Level Speed, Sea Level | 132 mph |
| Cruise Speed / Endurance with 45 Minute Reserve @ 75% Power | 128 mph / 3.1 hours |
| Fuel Consumption @ Altitude | 9 gph @ 8000 ft. |
| Service Ceiling | 15500 ft. |
| Landing Distance over 50-ft. Obstacle | 740 ft. |
| Landing Distance, Ground Roll | 360 ft. |

Limited and Recommended Airspeeds:

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| V_X (Best Angle) | 59 mph |
| V_Y (Best Rate) | 78 mph |
| V_A (Design Maneuvering) | 120 mph |
| V_F (Maximum Flap Speed) | 90 mph |
| V_{NO} (Maximum Structural Cruising) | 120 mph |
| V_{NE} (Never Exceed) | 162 mph |
| V_R (Rotation, 14° flaps) | 50 mph |
| V_{S1} (Stall, Clean) | 51 mph |
| V_{S0} (Stall, Full Flaps) | 46 mph |