

7KCAB CITABRIA

Vital Statistics

Engine

Engine Model: Lycoming AEIO-320-E2A

Type: direct-drive, horizontally opposed, fuel injected, four-cylinder, air cooled

Horsepower: 150

Maximum RPM: 2700

Features: alternate air

Operating Weights

Maximum Gross Takeoff Weight: 1750 lbs. Normal & Acrobatic Category

Maximum Gross Landing Weight: 1750 lbs. Normal & Acrobatic Category

Baggage Compartment: 100 lbs. maximum

Flight Load Factors

Positive Load Factor: +5.0 G's Maximum Normal & Acrobatic Category

Negative Load Factor: -2.0 G's Maximum Normal & Acrobatic Category

Oil System

Type: wet sump

Minimum Operating Quantity (Normal): 2 quarts

Minimum Operating Quantity (Aerobatic): 6 quarts

Maximum Operating Quantity: 8 quarts

Normal Operating Quantity: 6-8 quarts

Features: full inverted capability

Fuel System

Fuel Grade: 100LL

Total Capacity: 37 gallons (18.5 gallons each wing)

Total Usable: 36 gallons (18 gallons each wing)

Total Unusable: 1 gallon

Tanks: 2

Drains: 4

Pumps: one engine-driven; one electric auxiliary

Features: 1.5 gallon header tank for inverted flight maneuvers (2-3 minutes maximum supply)

Electrical System

System Voltage: 12 volts

Battery: one at 35 amperes, 12 volts

Alternators: one at 60 amperes, 14 volts

Features: automatic disconnect of the alternator during inverted or negative G maneuvers

Vacuum System

Pumps: one engine-driven

Normal Suction: 4.8 to 5.1 In/Hg

Propeller System

Type: fixed-pitch

Landing Gear System

Type: conventional, fixed, spring steel main gear, castering tailwheel

Tire Sizes: 6.00 X 6 (4-ply) main; 2.8 X 2.5 (4-ply) tail

Tire Inflation: 24 psi \pm 4 main; 40 psi \pm 10 tail

Brake System

Actuation: manual hydraulic

Features: disk brakes on main gear; parking brake

Pitot-Static System

Pitot Source: probe under right wing

Static Source: one static port on either side of rear empennage

Features: air-activated hinged cover on pitot tube

Cruise Performance (based on 5000 feet Pressure Alt., Standard OAT, Wheel Fairings Installed)

Average Cruise TAS: 129 MPH (109 KTS) @ 75% power, Best Power Leaning

123 MPH (104 KTS) @ 65% power, Best Power Leaning

115 MPH (98 KTS) @ 55% power, Best Power Leaning

Average Fuel Consumption: 10.5 GPH @ 75% power, Best Power Leaning

7.8 GPH @ 65% power, Best Power Leaning

6.4 GPH @ 55% power, Best Power Leaning