

COLUMBIA 400

SPECIFICATIONS

Powerplant Teledyne Continental TSIO-550-C
Recommended TBO 2,000 hr
Propeller(s) Hartzell 78 inch diameter, 3 blade
Length 25 ft 1 in
Height 9 ft
Wingspan 36 ft
Wing area 141.2 sq ft
Wing loading 25.5 lb/sq ft
Power loading 11.61 lb/hp
Seats 4
Cabin length 11 ft 7 in
Cabin width 4 ft 1 in
Cabin height 4 ft 1 in
Empty weight 2,485 lb
Useful load 1,115 lb
Payload w/full fuel 479 lb
Payload w/full fuel, as tested 391 lb
Max takeoff weight 3,600 lb
Max landing weight 3,420 lb
Zero fuel weight 3,300 lb
Fuel capacity, std 106 gal (98 to 102 gal usable)
636 lb (588 to 612 lb usable)
Oil capacity 10 qt
Baggage capacity 120 lb, 20 cu ft

PERFORMANCE

Takeoff distance, ground roll 1,200 ft

Takeoff distance over 50-ft obstacle 1,800 ft

Max demonstrated crosswind component 23 kt

Rate of climb, sea level, 3,600 lbs 1,285 fpm

Max level speed, 25,000 ft 235 kt

Cruise speed/endurance w/45-min rsv, std fuel (fuel consumption), 9,000 ft

@ 75% power, best power mixture 193 kt/3.7 hr (126 pph/21 gph)

@ 65% power, best power mixture 180 kt/4.75 hr (102 pph/17 gph)

@ 55% power, best power mixture 170 kt/ 5.9 hr (84 pph/14 gph)

Max operating altitude 25,000 ft

Service ceiling 25,000 ft

Absolute ceiling 25,000 ft

Landing distance over 50-ft obstacle 2,580 ft

Landing distance, ground roll 1,200 ft

LIMITING AND RECOMMENDED AIRSPEEDS

V X (best angle of climb) 82 KIAS

V Y (best rate of climb) 110 KIAS

V A (turbulent air penetration speed) @ 3,600 lbs. 158 KIAS

V FE (max flap extended) 40 deg extension 117 KIAS

V NO (max structural cruising) 181 KIAS

V NE (never exceed) 230 KIAS

V R (rotation) 65-70 KIAS

V S1 (stall, clean) 72 KIAS

V SO (stall, in landing configuration) 59 KIAS

All specifications are based on manufacturer's calculations. All performance figures are based on standard day, standard atmosphere, sea level, gross weight conditions unless otherwise noted.