

# Piper PA-34 Seneca Model Guide

Piper PA-34 Seneca is a light twin-engine piston aircraft first built in 1972, seating 4 to 7. The family runs from the PA-34-200 through the turbocharged PA-34-220T Seneca V. Family-level maxima are up to 880 nm range and 178 kt cruise. The detailed figures below come from the original PA-34-200 manual and checklist.

## KEY TAKEAWAYS

- Original PA-34-200: two 200 hp Lycoming engines, 4200 lb max takeoff weight and about 1575 lb standard useful load.
- Fuel capacity is 98 US gal with 5 gal unusable. Baggage limit is 100 lb in each of two compartments.
- Variants run PA-34-200, 200T (Seneca II), 220T (Seneca III, IV, V). Confirm the exact model and serial number before using any figure.
- Check the nose gear drag-link bolt records (500-hour life limit) and combustion heater fuel pump AD compliance.

## VARIANTS AND SERIAL NUMBERS

The registry family lists PA-34-200, PA-34-200T (Seneca II) and PA-34-220T (Seneca III, IV, V). The parts catalog covers Seneca IV serials 3447001 thru 3447029 (1995-1996 model years) and Seneca V serials 3449001 and up (from the 1997 model year). Match serial numbers to the right manual.

## PA-34-200 WEIGHTS, FUEL AND ENGINES

The PA-34-200 has max takeoff weight 4200 lb and max landing weight 4000 lb. Standard empty weight is about 2625 lb and useful load about 1575 lb. Engines are Lycoming IO-360-C1E6 and LIO-360-C1E6 (counter-rotating), each 200 hp, burning 100/130 minimum octane fuel. Oil capacity is 8 qts per engine.

## WHAT TO CHECK BEFORE BUYING

Ask for the Airplane Flight Manual and weight and balance report for the exact airplane. The Pilot's Operating Manual is incomplete without them, and the Flight Manual prevails if they disagree. Review AD compliance for the nose gear drag-link bolt (PA-34-200) and the combustion heater fuel pump (PA-34-200T and PA-34-220T), and the engines' condition, since the manual says performance varies with it.

## SPECIFICATIONS

|                       |       |
|-----------------------|-------|
| Engine Power Hp       | 200   |
| Fuel Capacity Gal     | 98    |
| Unusable Fuel Gal     | 5     |
| Wing Span Ft          | 38.88 |
| Length Ft             | 28.5  |
| Height Ft             | 9.9   |
| Propeller Diameter In | 76    |

## PERFORMANCE

|                        |      |
|------------------------|------|
| Top Speed Kts          | 170  |
| Cruise Speed Kts       | 150  |
| Best Rate Of Climb Fpm | 1360 |
| Fuel Burn Gph          | 20.6 |

## V-SPEEDS

|          |     |
|----------|-----|
| Vmc Kts  | 70  |
| Vx Kts   | 78  |
| Vy Kts   | 91  |
| Vyse Kts | 91  |
| Vs Kts   | 66  |
| Vso Kts  | 60  |
| Vno Kts  | 165 |
| Vne Kts  | 189 |

## WEIGHT & BALANCE

|                         |      |
|-------------------------|------|
| Max Takeoff Weight Lbs  | 4200 |
| Max Landing Weight Lbs  | 4000 |
| Empty Weight Lbs        | 2625 |
| Useful Load Lbs         | 1575 |
| Max Baggage Forward Lbs | 100  |
| Max Baggage Rear Lbs    | 100  |

## SAFETY NOTES

- FAA AD 2022-09-13 (PA-34-200, serials 34-7250001 through 34-7450220): 500-hour life limit on drag-link bolts 693-215 and NAS6207-50D; failure risks loss of control.
- CASA AD/PA-34/51 Amdt 1: heater fuel pump (91E92-1 or 91E93-1) leak inspection. Pump failure could lead to fire or explosion in the cockpit.
- The checklist lists Vmc as 70 KIAS and max demonstrated crosswind as 13 knots. Engine failure drill: identify, verify, then feather.