

HB-PBV



Technical Datasheet

Piper PA28-181 Archer II

Basic Information

Aircraft Type	Piper PA28-181 Archer
ICAO Designator	P28A
Year built	1977
Engine	Lycoming O-360
Engine Power	180 HP
Range	600 NM / 1111 km

Avionics

Primary Instruments	Classic 6-Pack
NAV / COMM	Garmin GNC 255 (COMM 1), Bendix King KX155 (COMM 2)
GPS	Garmin area 500
XPDR	Garmin GTX 328
Audio Panel	Garmin GMA 340
Autopilot	-
FLARM	Powerflarm/ Butterfly display

Speeds

V_{GLIDE} Best Glide	76 KIAS
V _R (Flaps 25°)	49 KIAS
V _R (Flaps 0°)	53 KIAS
V _{so} Stall Speed (Flaps 40°)	49 KIAS
V _{s1} Stall Speed (Flaps 0°)	55 KIAS
V _{Barrier} (Flaps 0°/ 25°)	58 KIAS / 54 KIAS
V _x Best angle of climb (Flaps 0°)	64 KIAS
V _y Best rate of climb (Flaps 0°)	76 KIAS
V _{cruise} Climb (Flaps 0° >2000 ft AAL)	87 KIAS
V _A Maneuvering speed @ empty weight	89 KIAS
V _A Maneuvering speed @ MTOW	113 KIAS
V _{p clean} min. clean speed	80 KIAS
V _{ne} Never Exceed Speed	154 KIAS
V _{FE} Flaps extended speed white arc	102 KIAS
V _{app} (Flaps 0°)	73 KIAS
V _{app} (Flaps 40°)	65 KIAS
V _{CRUISE} Cruising Speed 65 % @ 6000 ft	115 KTAS
Max. Crosswind Component	17 KTS



Fuel System

Total Capacity

2 x 25.0 USG = 50 USG / 189.3 Liter

Usable fuel

2 x 24.0 USG = 48.0 USG / 181.7 Liter

Fuel Filler Neck

2 x 17.0 USG = 34.0 USG / 128.7 Liter

Approved fuel types

AVGAS 100 LL

Fuel Consumption (PA 6000ft, ISA)

55% Best Power Mixture (103 KTAS)

7.8 USG/h / 29.5 Liter/h

65% Best Power Mixture (115 KTAS)

9.0 USG/h / 34.1 Liter/h

Weights:

MTOM Maximum Takeoff Mass

1156 kg / 2550 lbs

MLM Maximum Landing Mass

1156 kg / 2550 lbs

max. Weight in Baggage Area

90 kg / 200 lbs

Basic Empty Weight

716.0 kg / 1578.4 lbs

Basic Empty Moment

137'242.3 inches x lbs

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