

# HB-PBH



## Technical Datasheet

# Piper PA28-181 Archer II

### Basic Information

Aircraft Type	Piper PA28-181 Archer
ICAO Designator	P28A
Year built	1976
Engine	Lycoming O-360-A4A
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	Piper Autocontrol IIIB
FLARM	Powerflarm/ Butterfly display

### Speeds

<b>V<sub>GLIDE</sub> Best Glide</b>	<b>76 KIAS</b>
V <sub>R</sub> (Flaps 25°)	49 KIAS
V <sub>R</sub> (Flaps 0°)	53 KIAS
V <sub>so</sub> Stall Speed (Flaps 40°)	49 KIAS
V <sub>s1</sub> Stall Speed (Flaps 0°)	55 KIAS
V <sub>Barrier</sub> (Flaps 0°/ 25°)	58 KIAS / 54 KIAS
V <sub>x</sub> Best angle of climb (Flaps 0°)	64 KIAS
V <sub>y</sub> Best rate of climb (Flaps 0°)	76 KIAS
V <sub>cruise</sub> Climb (Flaps 0° >2000 ft AAL)	87 KIAS
V <sub>A</sub> Maneuvering speed @ empty weight	89 KIAS
V <sub>A</sub> Maneuvering speed @ MTOW	113 KIAS
V <sub>p clean</sub> min. clean speed	80 KIAS
V <sub>ne</sub> Never Exceed Speed	154 KIAS
V <sub>FE</sub> Flaps extended speed white arc	102 KIAS
V <sub>app</sub> (Flaps 0°)	73 KIAS
V <sub>app</sub> (Flaps 40°)	65 KIAS
V <sub>CRUISE</sub> 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

698 kg / 1539.6 lbs

Basic Empty Moment

134'935.2 inches x lbs

Last updated: 06.02.2023