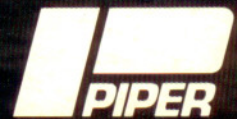


# SEMINOLE

The Low-Cost Light Twin From Piper





The Seminole is one of the lowest priced twin-engine aircraft available.

The heater air intake is in the one-piece fiberglass nose cone with the taxi-landing light.

A choice of 13 exterior colors lets you tailor your Seminole to your own tastes.



A one-piece fiberglass nose cone provides easy access to the landing gear mechanism, combustion heater, battery and landing light.



Counter rotating propellers improve handling and simplify single-engine operations.



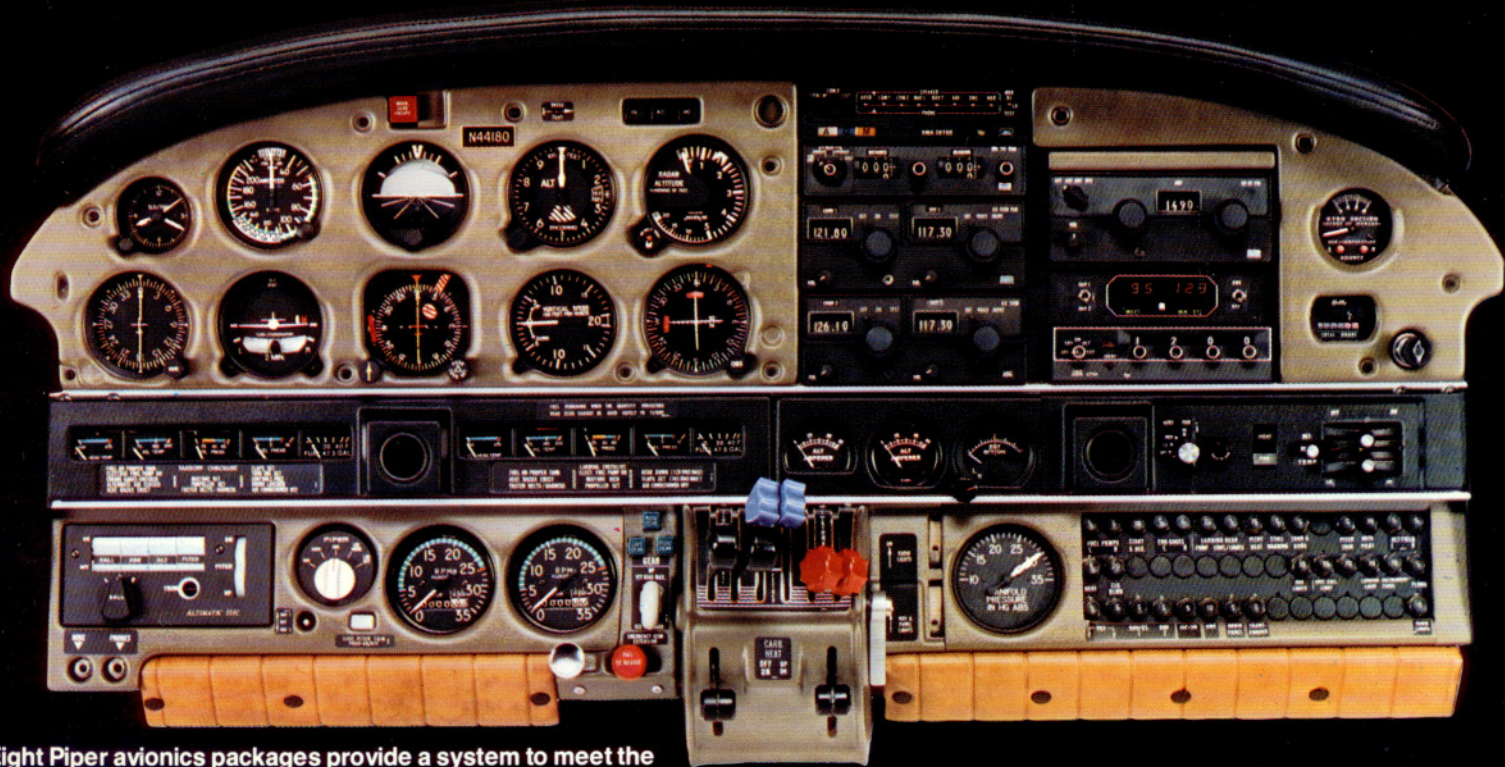
Two bladder-type nacelle-mounted fuel tanks provide 108 gallons of fuel for comfortable range.



**A ram air ventilation system and combustion heater help maintain a comfortable in-flight cabin environment.**



**A choice of four optional luxurious velour interiors provides sophisticated luxury.**



Eight Piper avionics packages provide a system to meet the needs of both businessmen and professional pilots.

# Piper Aircraft Corporation

1978

Specifications/Performance  
Standard Equipment

## Seminole

PA 44-180



Piper Aircraft Corporation  
**Seminole** PA 44-180

## Specifications

### ENGINES

(4 cylinder w/counter-rotating propellers)	
Manufacturer	Lycoming
Model	O-360-E1AD
Rating (HP and RPM)	180 @ 2700
Recommended TBO (hrs.)	2000

### WEIGHTS

Gross Weight (lbs./kg)	3800/1723.4
Standard empty weight (lbs./kg)	2406/1091.2
(with unusable fuel, full oil and full operating fluids)	
Useful Load (Standard Airplane) (lbs./kg)	1394/632.2

### WING AREA AND LOADINGS

Wing Area (ft. <sup>2</sup> /m <sup>2</sup> )	180/16.72
Wing Loading (lbs./ft. <sup>2</sup> )/(kg/m <sup>2</sup> )	21.11/103
Power Loading (lbs./hp)/(kg/hp)	10.55/4.78

### BAGGAGE

Volume with 2 cu. ft. hat shelf (ft. <sup>3</sup> /m <sup>3</sup> )	
Aft Compartment	24/0.68
Capacity (lbs./kg)	
Aft Compartment	200/90

### DIMENSIONS

Wing Span (ft./m)	38.55/11.75
Length (ft./m)	27.6/8.41
Height (ft./m)	8.5/2.59
Cabin Length	
(instrument panel to rear bulkhead) (in./cm)	97/246.4
Cabin Width (in./cm)	41.5/105.4
Cabin Height (in./cm)	49/124.5
Cabin Volume	
(including luggage area) (ft. <sup>3</sup> /m <sup>3</sup> )	106/3.00
Headroom (seat to ceiling)	
Front Seats (in./cm)	36/91.4
Rear Seats (in./cm)	36/91.4
Baggage Door Size (in./cm)	(22/55.88) x (20/50.80)
Cabin Door Size (in./cm)	(36/91.44) x (35/88.90)
Wheel Base (ft./m)	8.47/2.58
Wheel Tread (ft./m)	10.48/3.19

### FUEL CAPACITY

Standard (gal./L)	110/416
-------------------	---------

### USABLE FUEL

Standard (gal./L)	108/409
-------------------	---------

### OIL CAPACITY (qts./L)

8/7.57

## Performance

### MAXIMUM SPEED (3800 lbs.)

2700 rpm at Sea Level (kts./kmh)	167/309
----------------------------------	---------

### CRUISING SPEEDS (3800 lbs.)

@ Optimum altitude	<b>BEST POWER</b>
75% power (nm/km)	162/300
65% power (nm/km)	155/286
55% power (nm/km)	148/273

### STALL SPEED

Flaps Down Full 40° (kts./kmh)	59/109
Flaps Up (kts./kmh)	63/116

### CRUISE RANGE

(Cruising range includes 45 minute fuel reserve at maximum, range power plus allowance for fuel used during taxi, take-off, climb at MCP, cruise at optimum altitude and stated mixture plus descent)

	<b>BEST POWER</b>
75% power (nm/km)	712/1321
65% power (nm/km)	774/1435
55% power (nm/km)	834/1546

### FUEL CONSUMPTION (gph/Lph)

	<b>BEST POWER</b>	<b>BEST ECONOMY</b>
75% power	21/79.5	17.6/66.6
65% power	18/68	15.2/57.5
55% power	15.6/59	12.6/47.7

### SEAT MILES PER GALLON (nm/km) **BEST POWER**

75% power	30.9
65% power	34.4
55% power	37.9

### RATE OF CLIMB

(At Sea Level and Gross Weight)	
Two Engines (fpm/mpm)	1220/372
Single Engine (fpm/mpm)	217/66.1

### SERVICE CEILING

Two Engines (100 fpm) — 3800 lbs. (ft./m)	16,000/4876
Single Engine (50 fpm) — 3800 lbs. (ft./m)	3200/ 975

### ABSOLUTE CEILING (ft./m)

Two Engines — 3800 lbs.	17,500/5334
Single Engine — 3800 lbs.	4500/1371

### TAKE-OFF DISTANCE

(Sea Level, zero wind, standard temperature)	
Ground Run (ft./m)	1185/361
Total distance over 50 ft. obstacle (ft./m)	1550/470

### LANDING DISTANCE

(Sea Level, zero wind, standard temperature)	
Ground Roll (ft./m)	830/253
Total distance over 50 ft. obstacle (ft./m)	1700/518

### ACCELERATE-STOP DISTANCE

(Sea Level, zero wind, standard temperature) (ft./m)	2700/823
--	----------

# Standard Equipment

Standard Empty Weight: 2406 lbs.  
(Includes: unusable fuel, full operating fluids and full oil)

## INSTRUMENTS

Airspeed indicator  
Alternate instrument static source  
Altimeter, sensitive  
Ammeters — two  
Compass, magnetic (illuminated)  
Cylinder head temperature gauges — two  
Fuel pressure gauge — two  
Fuel quantity indicators — two  
Manifold pressure gauge — dual  
Oil temperature gauges — two  
Oil pressure gauges — two  
Recording tachometers — two  
Pitot and static source system  
Annunciator warning lights

## POWER PLANT

Engines — two Counter-Rotating Lycoming "76 Series"  
Rated at 180 hp each at sea level  
Four cylinder, dual ignition,  
normally aspirated carbureted  
Propellers — Hartzell lightweight, constant speed, controllable  
pitch, full feathering  
Engine mounts, dynafocal with internal dampers  
Air filters, dry type  
Ignition harness, shielded  
Oil coolers with thermostatic control  
Oil filters, full flow  
Starters, geared, 12 volts — two  
Cross-over muffled exhaust system  
Oil quick drain  
Carb heat muff

## ELECTRICAL PROVISIONS

Alternators — two 60 amp  
Battery — 12 volt, 35 amp hour  
Circuit breakers, resettable and can be pulled  
Landing gear position lights — alert (1), down (3)  
Provisions for radio installation  
Rocker switches, conveniently grouped on "waterfall" panel  
Voltage regulators — two

## FUEL SYSTEM

Fuel tanks, two vented: 108 gallons usable  
Fuel pumps, two electric pumps and two engine driven pumps  
Fuel sampling cup  
Single point quick drains for gascolator, fuel tanks  
and crossfeed

## CONTROLS AND PANEL ACCESSORIES

Carburetor heat controls  
Control pedestal, with throttle, propeller and mixture controls  
Cowl flaps, manual

Disc brake system, high capacity with parking brake,  
dual toe brakes, left and right  
Flaps (0°, 10°, 25°, 40° positions)  
Flight controls, dual  
Fuel selector controls with on/off/crossfeed — two  
Heater (combustion), defroster and vent controls  
Landing gear warning system with lights and horn  
Landing gear handle (hydraulic with manual secondary gear  
extension)  
Parking brake  
Rudder trim  
Rudder trim indicator  
Stabilator trim  
Stabilator trim indicator (illuminated)  
Stall warning sensor and horn

## AIRCRAFT FEATURES

Tow bar  
Cowl access doors, extra large and easily removable  
Main wheels — 6.00 x 6, with  
6.00 x 6, 8 ply tires with tubes  
Nose wheel — 5.00 x 5 nose wheel with  
5.00 x 5 tire with tube 4 ply  
rating, steerable  
Safety mirror — nose gear  
Tie down rings  
Jack pads  
Provisions for Automatic Locator Beacon

## CABIN FEATURES AND ACCESSORIES

Standard interior — four bucket seats with seat belts  
Shoulder safety belts with inertia reels for pilot  
and co-pilot seats  
Armrests — two  
Ash trays — four  
Cabin door and luggage door locks with identical keys  
Emergency exit, left side — one  
Front seats, horizontally adjustable, with 3-position  
reclining backs  
Rear seats, reclinable  
Hat shelf  
Headrest provisions on all seats  
Luggage compartments; rear, cabin: 24 cu. ft.; 200 lbs.  
Map pockets — two side  
Soundproofing  
Storm window — pilot's  
Swingaway sun visors (two)  
Ventilation: four floor warm air vents.  
Unheated fresh air can be circulated with the heater  
fan. Two windshield defrost outlets; 45,000 btu combustion  
cabin heater, cabin exhaust vents, overhead vent system  
Weight and balance computer