

DESIGN FEATURES

I. Specifications:

	PA-24 180	PA-24 250
Engine	Lyc. O-360-A	Lyc. O-540-A1A5
HP and RPM	180 at 2700	250 at 2575
Gross Weight (Lbs.)	2550	2800
Empty Weight (Standard) (Lbs.)	1455	1600
Useful Load (Lbs.)	1095	1200
Empty Weight (Custom) (Lbs.)	1485	1630
Useful Load (Custom) (Lbs.)	1065	1170
Empty Weight (Super Custom) (Lbs.)	1530	1675
Useful Load (Super Custom) (Lbs.)	1020	1125
Wing Span (Ft.)	36	36
Wing Area (Sq. Ft.)	178	178
Length (Ft.)	24.7	24.9
Height (Ft.)	7.3	7.3
Propeller Diam. (Max. In.)	74	77
Power Loading (Lbs. per HP)	14.2	11.2
Wing Loading (Lbs. per Sq. Ft.)	14.3	15.7
Baggage Capacity	200	200
Fuel Capacity (Standard, Gals.)	50	60
Fuel Capacity (With Reserve Fuel, Gals.)	60	
Tire Pressure (Lbs.)	Nose 27, Main 27	Nose 27, Main 42
Wheel Base (Ft.)	6.5	6.5
Wheel Tread (Ft.)	9.8	9.8
Top Speed (MPH)	167	190
Cruising Speed		
(75% Power, Sea Level, MPH)	150	171
Optimum Cruising Speed		
(75% Power, Optimum Alt.)	160	181
Stalling Speed (Flaps Down, MPH)	61	64
Take-off Run (Ft.)	750	750
Landing Roll (Flaps Down, Ft.)	600	650
Best Rate of Climb Speed (MPH)	96	95
Rate of Climb (Ft. per Min.)	910	1400
Service Ceiling (Ft.)	18,500	20,000
Absolute Ceiling (Ft.)	21,000	22,000
Fuel Consumption		
(Gal. per Hr., 75% Power)	10	14
Cruising Range		
(75% Sea Level, 50 Gals. Fuel)	5 Hrs., 750 Mi.	
Cruising Range, Optimum (50 Gals. Fuel)	6.2 Hrs., 920 Mi.	
Cruising Range		
(75%, Sea Level, 60 Gals. Fuel)	6 Hrs., 900 Mi.	4.3 Hrs., 740 Mi.
Cruising Range, Optimum (60 Gals. Fuel)	7.5 Hrs., 1100 Mi.	7.5 Hrs., 1100 Mi.

Performance figures are for Custom model airplanes flown at gross weight under standard conditions at sea level, or stated altitude. Any deviation from Custom equipment may result in changes in performance.