

SERVICE

MEMO

Service Memo No. 51

PIPER MODEL PA-18 SPECIFICATION DATA

I. SPECIFICATION DATA

Engine	Cont. C-90	Lyc. 108
HP and RPM	90 at 2475	108 at 2600
Gross Weight (Lbs.)	1300	1340
Empty Weight (Lbs.)	840	875
Useful Load (Lbs.)	460	465
Wing Span (Ft.)	35.3	35.3
Wing Area (Ft.)	178.5	178.5
Wing Chord (In.)	63	63
Length (Ft.)	22.4	22.4
Height (Ft.)	6.7	6.7
Prop. Dia. (In.)	74	74
Power Loading (Lbs./HP)	14.4	12.5
Wing Loading (Lbs./Sq. Ft.)	7.3	7.5
Baggage Capacity (Lbs.)	None	None
Cruise Range (Miles)	360	270
Service Ceiling (Ft.)	15,000	17,500
Absolute Ceiling (Ft.)	18,000	19,500
Fuel Consumption F. R. (GPH)	5	7
Fuel Consumption Lean (GPH)	4.8	6.2
Fuel Capacity (Gal.)	18	18

II. PERFORMANCE DATA *

Top Speed (MPH)	112	117
Cruise Speed (MPH)	100	105
Stalling Speed (MPH)	42	42
Take-Off Run (Ft.)	400	350
Take-Off Over 50 ft. Barrier	750	650
Landing Roll (Ft.)	385	385
Best Rate of Climb Speed (MPH)	71	68
Rate/Climb (Ft./Min.)	700	850

* Performance data given for flight weight of 1300 pounds with Continental C-90 engine installation, 1340 pounds with Lycoming O-235-C1 engine installation.