

GENERAL SPECIFICATIONS

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GENERAL SPECIFICATIONS

PERFORMANCE

Published figures are for standard airplanes flown at gross weight under standard conditions at sea level, unless otherwise stated. Performance for a specific airplane may vary from published figures depending upon the equipment installed, the condition of engine, airplane and equipment, atmospheric conditions and piloting technique. Each performance figure below is subject to the same conditions as on the corresponding performance chart from which it is taken in the Performance Charts Section.

Takeoff Ground Run (minimum) (ft)	1065
Takeoff Distance Over 50-ft Obstacle (25° flaps) (ft)	1760
Best Rate of Climb Speed (mph)	87
Rate of Climb (ft per min)	649
Service Ceiling (ft)	12,700
Absolute Ceiling (ft)	14,960
Top Speed (mph)	135*
Optimum Cruising Speed (75% power, optimum altitude, leaned to best power) (mph)	133*
Cruising Range (75% power, optimum altitude, leaned to best economy, no reserves) (mi)	720*
Optimum Cruising Range (55% power, optimum altitude, leaned to best economy, no reserves) (mi)	785*
Stalling Speed (flaps down) (mph)	58
Stalling Speed (flaps up) (mph)	64.5
Landing Roll (flaps down) (ft)	595
Landing Roll Over 50-ft Barrier (flaps down) (ft)	1115

WEIGHTS

Gross Weight (lbs)	2325
Standard Empty Weight (lbs)	1331
Maximum Useful Load (lbs)	994

*With Optional Wheel Fairings installed.

CHEROKEE WARRIOR

POWER PLANT

Engine (Lycoming)	O-320-E3D
Rated Horsepower	150
Rated Speed (rpm)	2700
Bore (inches)	5.125
Stroke (inches)	3.875
Displacement (cubic inches)	319.8
Compression Ratio	7:1
Dry Weight (pounds)	276
Propeller	
McCauley	1C160/EGM7653
Sensenich	74DM6-0-58

FUEL AND OIL

Fuel Capacity (U.S. gal) (standard)	50
Fuel Capacity (U.S. gal) Usable	48
Oil Capacity (qts)	8
Fuel, Aviation Grade	
Minimum Octane	80/87
Specified Octane	80/87
Alternate Fuels	Refer to Fuel Requirements, Section 10 - Page 10-9

DIMENSIONS

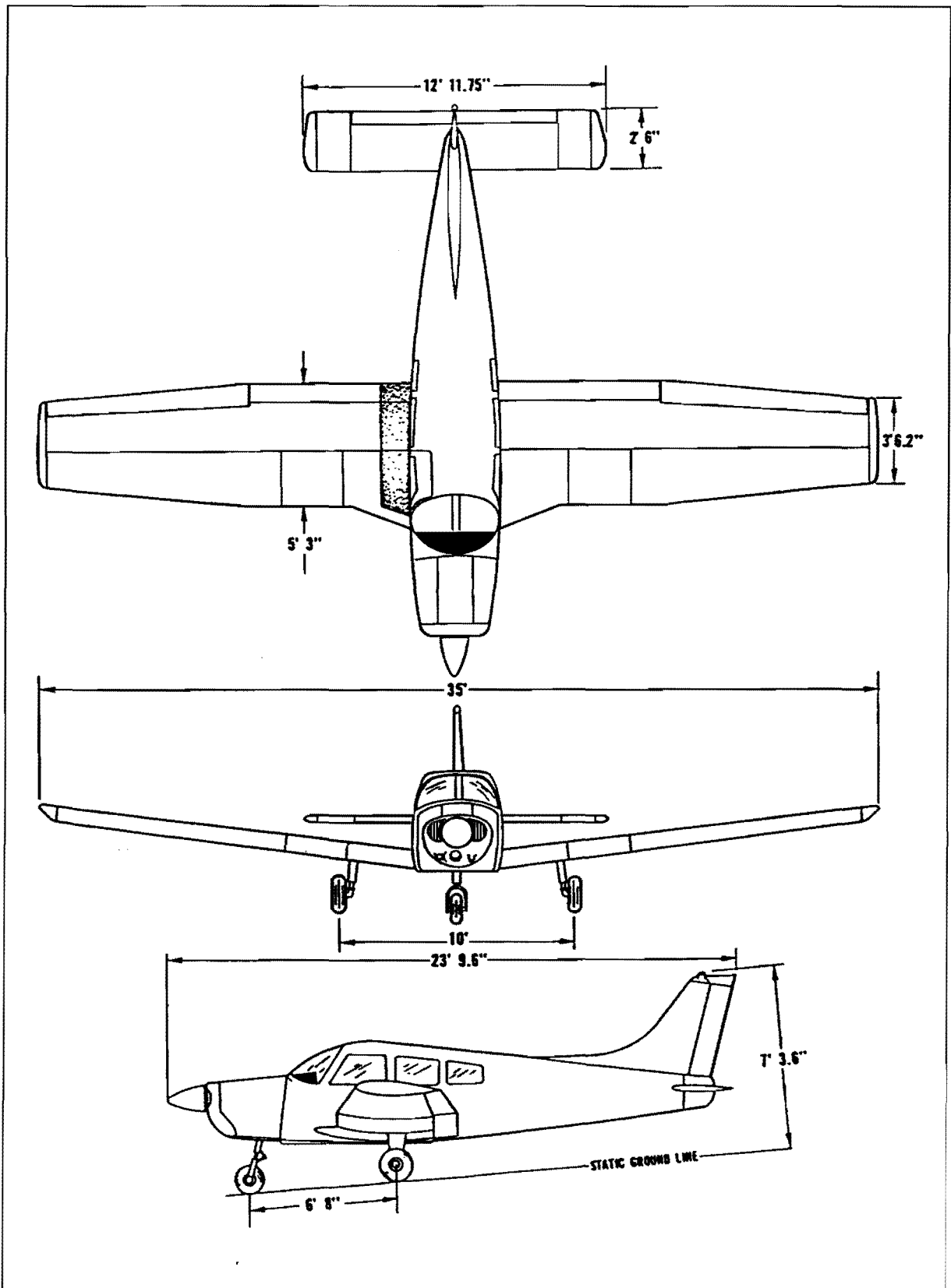
Wing Span (ft)	35
Wing Area (sq ft)	170.0
Length (ft)	23.8
Height (ft)	7.3
Wing Loading (lbs per sq ft)	13.7
Power Loading (lbs per hp)	15.5
Propeller Diameter (in.)	
McCauley	76
Sensenich	74
Turning Radius	13.0

BAGGAGE

Maximum Baggage (lbs)	200
Baggage Space (cubic ft)	24
Baggage Door Size (in.)	20 x 22

LANDING GEAR

Wheel Base (ft)	6.7
Wheel Tread (ft)	10.0
Tire Pressure (psi)	
Nose	30
Main	24
Tire Size	
Nose (4 ply rating)	5.00 x 5
Main (4 ply rating)	6.00 x 6



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