

# GENERAL SPECIFICATIONS

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**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 the 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 Run (ft)	1025
Takeoff Run (Short field effort, 25° flaps) (ft)	770
Takeoff Distance Over 50-ft Obstacle (ft)	1800
Takeoff Distance Over 50-ft Obstacle (Short field effort, 25° flaps) (ft)	1600
Best Rate of Climb (mph)	95 (100*)
Rate of Climb (gear retracted) (ft per min)	900
Best Angle of Climb (mph)	85 (96*)
Service Ceiling (ft)	15,000
Absolute Ceiling (ft)	17,000
Max Speed (mph)	175
Optimum Cruising Speed (75% power, optimum altitude, 6600 ft) (mph)	165
Cruise Speed at best power mixture (mph)	
65% power, 9,750 ft	159
55% power, 13,000 ft	150
Range at best power mixture (mi)**	
75% power, 6600 ft	665
65% power, 9750 ft	715
55% power, 13,000 ft	765
Cruise Speed at best economy mixture (mph)	
75% power, 6600 ft	156
65% power, 9700 ft	148
55% power, 13,100 ft	141
Range at best economy mixture (mi)**	
75% power, 6600 ft	740
65% power, 9700 ft	785
55% power, 13,100 ft	850
Stalling Speed (flaps and gear down) (CAS) (mph)	64
Stalling Speed (flaps and gear up) (CAS) (mph)	71
Landing Roll (flaps down) (ft)	780
Landing Roll Over 50-ft Obstacle (ft)	1380

\*Gear retracted

\*\*No reserve

# ARROW II

## WEIGHTS

Gross Weight (lbs)	2650
Standard Empty Weight (lbs)	1531
Maximum Useful Load (obs)	1198

## POWER PLANT

	S/N 28R-7435001 thru 28R-7635516	S/N 7635517 & Up
Engine (Lycoming)	IO-360-C1C	IO-360-C1C6
Propeller	Hartzell HC-C2YK-1( )/7666A-2 or HC-C2YK-1( )F/7666A-2	McCauley B2D34C213/90DHA-16
Rated Horsepower	200	200
Rated Speed (rpm)	2700	2700
Bore (in )	5.125	5.125
Stroke (in.)	4.375	4.375
Displacement (cu. in.)	361.0	361.0
Compression Ratio	8.7:1	8.7:1
Dry Weight (lbs)	326	333

## FUEL (AVGAS ONLY)

Usable Fuel Capacity (U.S. gal.)	48
Fuel, Aviation Grade (min octane)	100/130

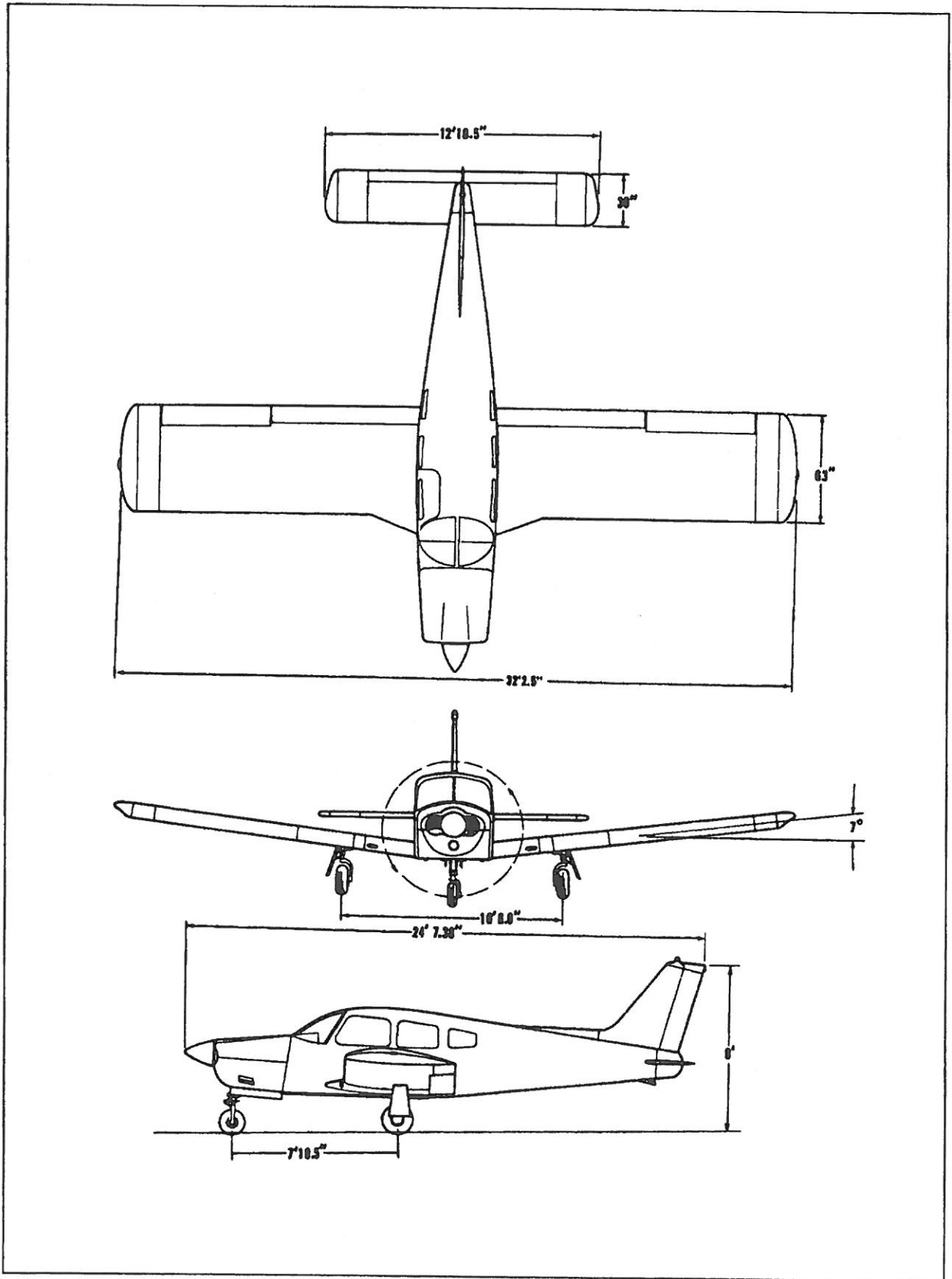
## OIL

Oil Capacity (qts)	8	
Oil Specification	Refer to latest issue of Lycoming Instruction No. 1014.	
Oil Viscosity per Average Ambient Temp. for Starting	MIL-L-6082B	MIL-L-22851
	Mineral	Ashless Dispersant
	SAE Grade	SAE Grades
All Temperatures	—	15W-50 or 20W-50
Above 80°F	60	60
Above 60°F	50	40 or 50
30°F to 90°F	40	40
0°F to 70°F	30	30, 40 or 20W-40
0°F to 90°F	20W-50	20W-50 or 15W-50
Below 10°F	20	30 or 20W-30

When operating temperatures overlap indicated ranges, use the lighter grade oil.

## BAGGAGE

Maximum Baggage (lbs)	200
Baggage Space (cu ft)	22
Baggage Door Size (in)	20 x 22



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ISSUED: JULY 13, 1973

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### DIMENSIONS

Wing Span (ft)	32.2
Wing Area (sq ft)	170
Wing Loading (lbs per sq ft)	15.6
Length (ft)	24.6
Height (ft)	8.0
Power Loading (lbs per hp)	13.25

### LANDING GEAR

Wheel Base (ft)	7.8
Wheel Tread (ft)	10.5
Tire Pressure (psi)	Nose 30
	Main 27
Tire Size	Nose (four-ply rating) 5.00 x 5
	Main (four-ply rating) 6.00 x 6