

**1998 PIPER ARCHER III****SPECIFICATIONS**

Powerplant	180-hp Lycoming O-360-A4M
Recommended TBO	2,000 hr
Propeller	Sensenich fixed-pitch, 2-blade, 76" dia.
Length	24 ft
Height	7 ft 4 in
Wingspan	35 ft 6 in
Wing area	170 sq ft
Wing loading	15 lb/sq ft
Power loading	14.2 lb/hp
Seats	4
Cabin length	8 ft 2 in
Cabin width	3 ft 6 in
Cabin height	3 ft 9 in
Empty weight	1,683 lb
Empty weight, as tested	1,758 lb
Maximum ramp weight	2,558 lb
Maximum gross weight	2,550 lb
Useful load	875 lb
Useful load, as tested	800 lb
Payload w/full fuel	587 lb
Payload w/full fuel, as tested	512 lb
Maximum takeoff weight	2,550 lb
Maximum landing weight	2,550 lb
Fuel capacity, std	50 gal (48 gal usable) 300 lb (288 lb usable)
Oil capacity	8 qt
Baggage capacity	200 lb, 26 cu ft

<b>PERFORMANCE</b>	
Takeoff distance, ground roll	1,135 ft
Takeoff distance over 50-ft obstacle	1,610 ft
Maximum demonstrated crosswind component	17 kt
Rate of climb, sea level	667 fpm
Maximum level speed, sea level	129 kt
Cruise speed/endurance w/45-min rsv, std fuel (fuel consumption) @ 75% power, best power mixture, 8,000 ft @ 65% power, best economy mixture, 12,000 ft	128 KTAS/3.8 hr (63 pph/10.5 gph) 125 KTAS/4.5 hr (54 pph/9 gph)
Service ceiling	13,236 ft
Landing distance over 50-ft obstacle	1,400 ft
Landing distance, ground roll	920 ft
<b>LIMITING AND RECOMMENDED AIRSPEEDS</b>	
$V_X$ (best angle of climb)	64 KIAS
$V_Y$ (best rate of climb)	76 KIAS
$V_A$ (design maneuvering)	103 KIAS
$V_{FE}$ (max flap extended)	102 KIAS
$V_{NO}$ (max structural cruising)	125 KIAS
$V_{NE}$ (never exceed)	154 KIAS
$V_{S1}$ (stall, clean)	51 KIAS
$V_{SO}$ (stall, in landing configuration)	46 KIAS
<p><i>For more information, contact The New Piper Aircraft Inc., 2926 Piper Drive, Vero Beach, Florida 32960; telephone 772-567-4361, or visit the Web site - <a href="http://www.piper.com">www.piper.com</a></i></p> <p><i>All specifications are based on manufacturer's calculations. All performance figures are based on standard day, standard atmosphere, sea level, gross weight conditions unless otherwise noted.</i></p>	