

AZTEC NOMAD

SPECIFICATIONS

- Engines Lycoming IO-540
2,000 HR. TBO
250 H.P. 8.5:1
- Propellers Hartzell feathering
82" diameter
- Length 31'-2"
- Height 15'-0"
- Wing Span 40'-2"
- Wing Area 224.6
- Wing Loading 25.37
- Power Loading 11.4
- Seats 5 – 7
- Cabin Length 7'-6"
- Cabin Width 48"
- Cabin Height 52"
- Gross Weight 5700 lbs.
- Basic Empty Weight 3900 lbs.
- Max useful load 1800 lbs.
- Zero fuel weight 5250 lbs.
- Max landing weight 5400 lbs.
- Standard Fuel Capacity 144 U.S. (864 lbs)
- Optional Fuel Capacity 192 U.S. (1152 lbs.)
- Baggage Capacity (40 cu.ft.)
Nose compartment 150 lbs.
Aft compartment 150 lbs.

SPECIFICATIONS (cont'd.)

- Modified EDO floats 5700 lb. flotation
6 water tight
compartments
hydraulic gear act.
Cleveland wheels & brakes

PERFORMANCE

- Take-off Distance on Water (ft) 1750
- Rate of climb (ft/min) 950
- Engine Out Rate of Climb (ft/min S.L.) 50
- Cruise Speed MPH
75% (29 GPH) 155
65% (26 GPH) 145
- Maximum Range (S.M.)
Standard 785
Optional 1010

LIMITING AND RECOMMENDED AIRSPEEDS

(IAS MPH)

- V_y (best rate of climb) 102
- V_{mc} (min. control w/critical engine inop.) 60
- V_{yse} (best s.e. rate of climb) 102
- V_a (design manoeuvring) 136
- V_{fe} (max. flap extension) 125
- V_{lo} (max. landing gear extension) 125
- V_{no} (max. structural cruise) 153
- V_{ne} (max. never exceed speed) 193
- V_{s1} (stall clean) 59
- V_{s0} (stall dirty) 54

PERFORMANCE COMPARISON CHART (real life)

	AZTEC NOMAD AMPHIBIAN	CESSNA U206 AMPHIBIAN	PISTON BEAVER AMPHIBIAN	TURBINE BEAVER AMPHIBIAN	CARAVAN AMPHIBIAN
COST (used) U.S.\$	375,000 – 550,000	200,000 – 350,000	400,000 – 550,000	600,000 – 800,000	1.0 – 1.3 M
ENGINE H.P.	500	300	450	550	675
EMPTY WEIGHT (lbs)	3,900	2,700	3,800	4,000	5,800
USEFUL LOAD (lbs)	1,800	900	1,440	1,950	2,200
GROSS WEIGHT	5,700	3,600	5,090	5,370	8,000
TAKE OFF RUN ON - WATER - OVER 50 FEET	1,750' 2,750'	2,300' 3,200'	1,650' 2,350'	1,500' 1,900'	2,500' 3,300'
TIME	22 sec.	29 sec.	21 sec.	18 sec.	25 sec.
RATE OF CLIMB	950'	600	550	900	1,000
CRUISE 75% (mph)	155	140	105	125	155
FUEL BURN/HR	29	16	29	40	70
RANGE (st. miles)	785	750	350	500	790
STALL SPEED (mph)	54	59	45	45	68
ENGINE OUT RATE OF CLIMB	+ 50	- 1,000	- 1,050	- 950	- 950
PERSONS WITH FULL FUEL	6	2	4	4	0

Note: some performance specs are estimated.

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