1981 CHEYENNE II
SPECIFICATIONS & PERFORMANCE

SPECIFICATIONS

POWER PLANTS

Two Pratt and Whitney (UACL) PT6A-28
rated at 620 shaft hp each

WEIGHTS

Maximum ramp weight	9,050 lbs. (4105 kg)
Maximum take-off weight	9,000 lbs. (4082 kg)
Maximum landing weight	9,000 lbs. (4082 kg)
Standard empty weight (includes: unusable fuel, full operating fluids and full oil)	4,983 lbs. (2260 kg)
Standard useful load (standard airplane)	4,067 lbs. (1845 kg)
Maximum zero fuel gross weight	7,200 lbs. (3266 kg)

WING AREA/WING LOADING/POWER LOADING

Wing area	229 ft.^{2} (21.3m^2)
Wing loading	39.3 lbs./ft.^{2} (192 kg/m^2)
Power loading	7.26 lbs./hp (3.29 kg/hp)

PRESSURIZATION (5.5 PSI Differential)

Actual aircraft altitude	Cabin Altitude
12,000 ft. (3658 m)	Sea Level
25,000 ft. (7620 m)	8,000 ft. (2438 m)
29,000 ft. (8839 m)	10,000 ft. (3046 m)

USABLE FUEL (6.7 lbs./gal.)

Standard 382 U.S. gal. (1446 L)

OIL CAPACITY (Total) 6.5 U.S. gal. (24.6 L)

DIMENSIONS

Wing span		42.68 ft. (13.0 m)
Length		34.67 ft. (10.57 m)
Height		12.75 ft. (3.89 m)
Cabin length		101 in. (256 cm)
Cabin width		50 in. (127 cm)
Cabin height		51.5 in. (131 cm)
Passenger door size	28 x 46 in.	(71.1 x 116.8 cm)
Baggage door size (forward)	26 x 21 in.	(66 x 53.3 cm)

BAGGAGE – WEIGHT ALLOWANCE AND VOLUME

Rear baggage compartment	200 lbs. (22 ft.^{3})	90.7 kg (.62 m^3)
Front baggage compartment	300 lbs. (20 ft.^{3})	136 kg (.56 m^3)
Cargo area total	(150 ft.^{3})	(4.25 m^3)

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PERFORMANCE

CRUISE SPEEDS – TAS

Average cruise weight
(Maximum cruise power @ 7,700 lbs.)
11,000 ft. (3353 m) 283 kts. (524 kmh)
16,000 ft. (4877 m) 278 kts. (515 kmh)
21,000 ft. (6401 m) 270 kts. (500 kmh)
29,000 ft. (8838 m) 253 kts. (469 kmh)

CRUISE RANGE, FUEL 382 Gal. Usable)

Maximum cruise power
12,000 ft. (3658 m) 905 nm (1677 km)
16,000 ft. (4877 m) 1020 nm (1890 km)
21,000 ft. (6401 m) 1155 nm (2140 km)
29,000 ft. (8839 m) 1380 nm (2556 km)
Maximum range power
12,000 ft. (3658 m) 1090 nm (2020 km)
16,000 ft. (4877 m) 1195 nm (2213 km)
21,000 ft. (6401 m) 1330 nm (2463 km)
29,000 ft. (8838 m) 1510 nm (2797 km)
Range includes allowance for fuel used during starting, taxi, takeoff, climb, cruise, descent and a 45 minute reserve at maximum range power and standard atmospheric conditions.

RATE OF CLIMB AT SEA LEVEL

(**Two engines**)
9,000 lbs. (4082 kg) 2710 fpm (826 m/m)
7,200 lbs. (3266 kg) 3610 fpm (1100 m/m)
(**One engine**)
9,000 lbs. (4082 kg) 660 fpm (201 m/m)
7,200 lbs. (3266 kg) 1020 fpm (311 m/m)

SERVICE CEILING

(Two engines – 100 fpm)
9,000 lbs. (4082 kg) 31,600 ft. (9632 m)
7,200 lbs. (3266 kg) 34,300 ft. (10455 m)
(One engine – 50 fpm)
9,000 lbs. (4082 kg) 14,600 ft. (4450 m)
7,200 lbs. (3266 kg) 19,300 ft. (5883 m)

STALL SPEEDS IAS –

Power idle at 9,000 lbs.	**(4082 kg)**
Flaps 40° gear down	75 kts. (139 kmh)
Flaps 0° gear up	86 kts. (159 kmh)

TAKEOFF DISTANCE (FAA Approved)

Flaps 0°
Normal procedures at 9,000 lbs. (4082 kg)

Lift-off speed (IAS)	91 kts. (169 kmh)
Ground run	1,410 ft. (430 m)
Tot. dis. over 50 ft. obstacle	1,980 ft. (604 m)

LANDING DISTANCE (FAA Approved)

3° Approach angle without reversing

	9,000 lbs. (4082 kg)
Approach speed	98 kts. (182 kmh)
Ground roll	1,430 ft. (436 m)
Tot. dis. over 50ft. obstacle	2,480 ft. (756 m)

With propeller reversing

Approach speed	91 kts. (169 kmh)
Ground roll	955 ft. (291 m)
Tot. dis. over 50 ft. obstacle	1,860 ft. (567 m)

DISTANCE TO ACCELERATE AND STOP -

9,000 lbs. (4082 kg) Flaps 0°
(includes allowance for failure recog. & reaction)

Decision speed (IAS)	91 kts. (169 kmh)
Total distance	3,300 ft. (1006 m)

MISSION PROFILE

Operation based on the following conditions:

Empty weight	5,477 lbs. (2484 kg)
Ramp weight	9,050 lbs. (4105 kg)
Take-Off weight	9,000 lbs. (4082 kg)
Maximum cruise power at	29,000 ft. (8838 m)

5 occupants, plus 164 lbs. (73 kg) luggage, and 2559 lbs. (1160 kg) of fuel before starting engines

Range	1382 nm (2561 km)
Speed (Average)	242 kts. (448 kmh)
Mission Time	5 hrs., 43 min.