

CHEYENNE II XL

SPECIFICATIONS & PERFORMANCE

SPECIFICATIONS

POWER PLANTS

Two Pratt and Whitney (UACL) PT6A-135
rated at 620 shaft hp each

WEIGHTS

Maximum ramp weight	9,540 lbs. (4327 kg)
Maximum take-off weight	9,474 lbs. (4297 kg)
Maximum landing weight	9,000 lbs. (4082 kg)
Standard empty weight (includes: unusable fuel, full operating fluids and full oil)	5,487 lbs. (2489 kg)
Standard useful load (standard airplane)	4,053 lbs. (1838 kg)
Maximum zero fuel gross weight	7,600 lbs. (3447 kg)

WING AREA/WING LOADING/POWER LOADING

Wing area	229 ft. ² (21.3m ²)
Wing loading	41.37 lbs./ft. ² (202 kg/m ²)
Power loading	7.64 lbs./hp (3.46 kg/hp)

PRESSURIZATION (5.5 PSI Differential)

Actual aircraft altitude	Cabin Altitude
12,000 ft. (3658 m)	Sea Level
25,000 ft. (7620 m)	8,190 ft. (2496 m)
29,000 ft. (8839 m)	10,143 ft. (3092 m)

USABLE FUEL (6.7 lbs./gal.)

Standard	366 U.S. gal. (1385 L)
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OIL CAPACITY (Total)

6.5 U.S. gal. (24.6 L)

DIMENSIONS

Wing span	42.68 ft. (13.0 m)
Length	36.67 ft. (11.18 m)
Height	12.75 ft. (3.89 m)
Cabin length	151 in. (383 cm)
Cabin width	51 in. (130 cm)
Cabin height	52 in. (132 cm)
Passenger door size	28 x 46 in. (71 x 117 cm)
Baggage door size (forward)	27 x 17.5 in. (69 x 44 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. (16 ft. ³)	136 kg (.45 m ³)
Cargo area total	(202.5 ft. ³)	(5.73 m ³)

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PERFORMANCE

CRUISE SPEEDS – TAS

Average cruise weight

(Maximum cruise power @ 8,200 lbs.)
13,000 ft. (3353 m) 275 kts. (510 kmh)
16,000 ft. (4877 m) 273 kts. (506 kmh)
20,000 ft. (6401 m) 270 kts. (500 kmh)
29,000 ft. (8839 m) 255 kts. (473 kmh)

CRUISE RANGE

Maximum cruise power

12,000 ft. (3658 m) 775 nm (1436 km)
16,000 ft. (4877 m) 856 nm (1586 km)
20,000 ft. (6401 m) 945 nm (1751 km)
29,000 ft. (8839 m) 1175 nm (2177 km)

Maximum range power

12,000 ft. (3658 m) 945 nm (1750 km)
16,000 ft. (4877 m) 1075 nm (1991 km)
20,000 ft. (6401 m) 1145 nm (2121 km)
29,000 ft. (8839 m) 1280 nm (2371 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)

9,474 lbs. (4297 kg) 1750 fpm (533 m/m)
7,500 lbs. (3402 kg) 2460 fpm (750 m/m)

(One engine)

9,474 lbs. (4297 kg) 470 fpm (143 m/m)
7,500 lbs. (3402 kg) 810 fpm (247 m/m)

SERVICE CEILING

(Two engines – 100 fpm)

9,474 lbs. (4297 kg) 32,400 ft. (9875 m)
7,500 lbs. (3402 kg) 35,500 ft. (10820 m)

(One engine – 50 fpm)

9,474 lbs. (4297 kg) 14,900 ft. (4541 m)
7,500 lbs. (3402 kg) 19,300 ft. (5883 m)

STALL SPEEDS IAS –

Power idle at 9,474 lbs. (4297 kg)

Flaps 40° gear down 77 kts. (143 kmh)
Flaps 0° gear up 86 kts. (159 kmh)

TAKEOFF DISTANCE Flaps 0°

Normal procedures at 9,474 lbs. (4297 kg)

Rotation Speed (IAS) 101 kts. (187 kmh)
Ground roll 2042 ft. (622 m)
Tot. dis. over 50 ft. obstacle 2940 ft. (896 m)

LANDING DISTANCE 9,000 lbs. (4082 kg)

3° Approach angle without reversing

Approach speed (IAS) 104 kts. (193 kmh)
Ground roll 1571 ft. (479 m)
Tot. dis. over 50 ft. obstacle 2446 ft. (745 m)

With propeller reversing

Approach speed (IAS) 104 kts. (193 kmh)
Ground roll 1080 ft. (329 m)
Tot. dis. over 50 ft. obstacle 1773 ft. (540 m)

DISTANCE TO ACCELERATE AND STOP - 9,474 lbs. (4297 kg) Flaps 0°

(includes allowance for failure recog. & reaction)

Decision speed (IAS) 101 kts. (187 kmh)
Total distance 4186 ft. (1276 m)

MISSION PROFILE

Operation based on the following conditions:

Empty weight 5,496 lbs. (2493 kg)
Ramp weight 9,540 lbs. (4327 kg)
Take-Off weight 9,474 lbs. (4297 kg)
Maximum cruise power at 29,000 ft. (8839 m)
8 occupants, plus 232 lbs. (105 kg) luggage, and
2452 lbs. (1160 kg) of fuel before starting engines
Range with reserves 1175 nm (2177 km)
Speed (Average) 255 kts. (473 kmh)
Mission Time 4 hrs., 40 min.