









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 | 5,487 lbs. (2489 kg) |
| (Standard empty weight includes: unusable fuel, full operating fluids and full oil) | |
| 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) | 8,000 ft. (2438 m) |
| 29,000 ft. (8839 m) | 10,143 ft. (3092 m) |

USABLE FUEL (6.7 lbs./gal.)

| | |
|----------|------------------------|
| Standard | 366 U.S. gal. (1385 L) |
| | 6.5 U.S. gal. (24.6 L) |

OIL CAPACITY (Total)

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 | 51.5 in. (131 cm) |
| Passenger Door Size | 28 x 46 in. (71 x 117 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. (16 ft. ³) | 136 kg (.45 m ³) |
| Cargo Area Total | (202.5 ft. ³) | (5.73 m ³) |

Performance

CRUISE SPEEDS — TAS

| Average Cruise Weight (Maximum Cruise Power @ 8200 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, take-off, 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) |

RATE OF CLIMB AT SEA LEVEL

(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. (10,820 m) |

SERVICE CEILING

(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 SPEED 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) |

TAKE-OFF DISTANCE Flaps 0°

| | |
|---|--------------------|
| Normal Procedures at 9,474 lbs. (4297 kg) | |
| Rotation Speed (IAS) | 101 kts. (187 kmh) |
| Ground Roll | 2042 ft. (622 m) |
| Total Distance 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) |
| Total Distance over 50 ft. Obstacle | 2446 ft. (745 m) |

LANDING DISTANCE — 9,000 lbs. (4082 kg)

| | |
|-------------------------------------|--------------------|
| With Propeller Reversing | |
| Approach Speed (IAS) | 104 kts. (193 kmh) |
| Ground Roll | 1080 ft. (329 m) |
| Total Distance over 50 ft. Obstacle | 1773 ft. (540 m) |

DISTANCE TO ACCELERATE AND STOP —

9,474 lbs. (4297 kg) Flaps 0°

(includes allowance for failure recognition and reaction)

| | |
|----------------------|--------------------|
| Decision Speed (IAS) | 101 kts. (187 kmh) |
| Total Distance | 4186 ft. (1276 m) |

MISSION PROFILE

Operation based on the following conditions:

| | |
|--|----------------------|
| Equipped 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. |