

Ficha Técnica

Model: EMBRAER PHENOM 100

Engine Takeoff Power: P&W 1615 lb thr PW617F

Engine TBO Hours: 3500

Max Seats: 6

Embraer Phenom 100 Speed:

Maximum Operating Speed: 463 Knots (kts), 532 mph or Mach 0.70

High Speed Cruise: 390 Knots (kts) or 722 km/h

Airspeed Limitations:

VMO (max operating speed): 275 Knots Indicated Airspeed (KIAS) from sea level to 28,000 feet.

MMO (Max Mach Speed): 0.7 Mach above 28,000 feet

VFE (Maximum Flaps Extended Speed):

10 degrees (takeoff): 200 KIAS

26 degrees (takeoff and landing): 160 KIAS

36 degrees (landing): 145 KIAS

VMC (minimum control speed):

10 degrees (takeoff): 97 KIAS

26 degrees (takeoff): 92 KIAS

26 degrees (landing): 86 KIAS

36 degrees (landing): 86 KIAS

Speeds above can change due to temperature and altitude. Do not use for flight, refer to official aircraft operating manual.

VLO (landing gear operating)

Gear Retract and Extend: 180 KIAS

VLE (landing gear extended): 275 KIAS

Maximum tire ground speed: 139 Knots

Embraer Phenom 100 Landing and Takeoff Distances:



PHENOM 100 EMB-500 Embraer

2009

1099.0 H. T.

U\$2.178.000,00

GP2736

Phenom 100 Takeoff Distance: 3,125 feet (ft) or 952 meters (m) (MTOW, SL, ISA)

Landing Distance: 2,699 feet (ft) or 823 meters (m) (MLW, SL, ISA)

Service Ceiling Maximum Operating Altitude: 41,000 feet (ft) or 12,497 meters (m)

Maximum Takeoff and Landing Altitude: 10,000 ft

Engines:

Embraer Phenom 100 Engines: Pratt & Whitney PW617F-E (2 Total)

Engine Thrust and Flat Rating: 1,695 lb ISA + 10 degrees Celsius

Both Phenom 100 Engines are FADEC controlled

External Noise: 33 EPNdB below stage 4

Engine Limitations:

During standard day, sea level and static thrust

Takeoff (5 Minutes): Standard Version: 1,695 pounds of thrust. Enhanced Version (Possibly Phenom 100E): 1,695 pounds of thrust.

Automatic Thrust Reserve (ATR, 10 minutes): Standard Version: 1,720 pounds of thrust. Enhanced Version (Phenom 100E): 1,820 pounds of thrust.

Maximum engine rotor operating speeds, permissible (Takeoff and Maximum Continuous)

N1 (fan): 100% = 19,845 revolutions per minute (RPM)

N2 (Gas Gen): 100.4% = 40,200 RPM

N1 Transient (20 seconds): 101% = 20,043 RPM

N2 Transient (20 seconds): 102% = 40,840 RPM

Maximum interturbine gas temperatures (IGT), permissible

Takeoff: 830 Celsius

ATR: 845 Celsius

Maximum Continuous: 830 Celsius

Transient (starting 5 seconds): 892 Celsius or 950 Celsius with Post SB 500-73-0001 incorporated (SB = Service Bulletin)

Transient (20 seconds): 862 Celsius

Seating Configuration and Seating Capacity:

1 crew and 7 passengers (9 total persons)

Avionics: Prodigy Flight Deck 100 based on the Garmin G1000 avionics suite

Embraer Phenom 100 Dimensions:



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External Dimensions:

Height 14 ft 3 in

Wing Span 40 ft 4 in (Wing Area: 160 ft² (squared))

Length 42 ft 1 in

Cabin / Interior Dimensions:

Max. Height 4 ft 11 in

Max. Width 5 ft 1 in

Length 11 ft

Floorline Width 3 ft 7 in

Cabin Door Dimensions:

Height 4 ft 10 in (1.48m) Width 2 ft (0.62m)

Phenom 100 Cabin Volume: 282 cu ft

Configuração

Avinicos

Garmin Prodigy flight deck

Enhanced take-off package

Electronic Chart View

Premium Pax Door

Pilot Sunshade

Pilot Sunvisor

Garmin G1000 Avionics System w 3 12-Inch Displays

Garmin GFC-700 Automatic Flight Control System

Dual AHRS

Dual RVSM Compliant Digital Air Data Computers (GDC 74B)

Dual Radio Modules

Dual Audio Panel GMA 1347D

Dual Digital Audio Control Systems

Class-B Terrain Awareness and Warning System (TAWS)

Garmin GTX-33 Mode S Transponder

Garmin GWX-68 Weather Radar

GDL 69A

Honeywell KN-63 DME

ADF

Class B TAWS

TCAS 1 Skywatch HP

Kannad ELT 406Mhz

General Aviation CVR and Data Recorder FA2100

Inspeção



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