

B737-400 or A320  
Design Specification

Purpose: Competitive alternative to the Boeing 737-400, A320, and MD-90

Payload: 150 passengers at 175 lb. each, plus baggage at 30 lb. each in 2-class seating

Crew: 2 flight crew at 175 lb. each plus baggage at 30 lb. each  
3 cabin attendants at 130 lb. each plus baggage at 30 lb. each

Range with design payload: 1500 n.mi.

Reserve Fuel: FAR 121 Domestic Reserves

Cruise altitude: 35,000 ft.

Long range cruise speed: Mach number 0.82

Climb direct to 35,000 ft. at maximum takeoff gross weight

Takeoff Field Length: 5,000 ft at Sea Level, standard day conditions, at maximum takeoff weight

Landing Field Length: 4,500 ft. at Sea. Level, standard day conditions, at maximum landing weight

Powerplants: 2 BPR 6.0 turbofans

Pressurization: 5,000 ft. cabin altitude at 35,000 ft. cruise altitude

Certification basis: FAR 25 and 121

Mission Profile: FAR Part 121 Domestic Operations (see document "Mission Profiles")

6. Descent Loiter