

Q400 NextGen

Optimized for short-haul operations, the 70- to 80-seat Q400* NextGen* aircraft is a large, fast, quiet, and fuel efficient turboprop. The Q400 NextGen aircraft provides the perfect balance of passenger comfort and operating economics with a reduced environmental footprint.



Q400
NextGen

BOMBARDIER

Q400 NextGen



AVIONICS INFO

DISPLAYS (THALES)

5-screen LCD

NAV/COMM DECK

Dual Mode S, VHF Nav, ADF, DME, Comm

FMS

UNS-1E single or dual, EGPWS, Dual Rad Alt, TCAS, Vertical Scale Symbology

OPTIONAL FEATURES

ACARS, HGS, MicroQAR, HF

ENGINE

Type	Two PW150A turboprops
Flat Rating	ISA + 22.4 C
Power	5,071 shp
Propellers	Two Dowty model R408, electronically controlled, six composite blades

PERFORMANCE

RANGE (225 LB. / 102 KG PER PAX., LRC, IFR WITH RESERVES)

Q400 NextGen EHW (74 pax. @ 31" pitch) 1,125 NM 1,295 SM 2,084 km

SPEED

Maximum Cruise Speed	360 kts	414 mph	667 km/h
High Speed Cruise	349 kts	402 mph	646 km/h
Long-Range Cruise Speed	287 kts	330 mph	532 km/h

TAKEOFF FIELD LENGTH (ISA, SL)

4,819 ft. / 1,468 m

LANDING FIELD LENGTH (ISA, SL)

4,232 ft. / 1,290 m

CEILING

Maximum Operating Altitude 25,000 ft. 7,620 m

NOISE LEVEL (EHGW)

Flyover	78.6 EPNdB
Lateral	84.0 EPNdB
Approach	93.1 EPNdB
Margin to Chapter 4	15.3 EPNdB

EMISSIONS (MARGINS TO CAEP6)

NO _x	22 g/kN
Smoke	6.3
UHC (Unburned Hydrocarbons)	6 g/kN
CO	86 g/kN

GENERAL

Flight Crew	2
Cabin Crew	2 or 3
Passengers	74 (up to 80)

EXTERNAL DIMENSIONS

Length	107 ft. 9 in.	32.8 m
Wingspan	93 ft. 3 in.	28.4 m
Wing Area (net)	689 ft. ²	64 m ²
Height	27 ft. 5 in.	8.4 m
Fuselage Maximum Diameter	8 ft. 10 in.	2.7 m

INTERNAL DIMENSIONS

Cabin Length	61 ft. 8 in.	18.80 m
Cabin Maximum Width (Centerline)	8 ft. 3 in.	2.51 m
Cabin Width (Floor Level)	6 ft. 8 in.	2.03 m
Cabin Aisle Height	6 ft. 5 in.	1.95 m
Cabin Volume	2,740 ft. ³	77.6 m ³
Overhead Bin Volume per Pax	1.7 ft. ³	0.05 m ³
Cargo Volume	502 ft. ³	14.2 m ³
Floor Area	411 ft. ²	38.2 m ²

DOORS & EXITS

PASSENGER DOOR

	HEIGHT	WIDTH	HEIGHT TO SILL
LH FWD	5 ft. 5 in. / 1.65 m	2 ft. 6 in. / 0.76 m	3 ft. 10 in. / 1.17 m
LH AFT	5 ft. 8 in. / 1.72 m	2 ft. 4 in. / 0.71 m	5 ft. 1 in. / 1.55 m

CARGO DOOR

	HEIGHT	WIDTH	HEIGHT TO SILL
AFT	4 ft. 7 in. / 1.40 m	4 ft. 11 in. / 1.50 m	5 ft. 1 in. / 1.55 m
FWD	4 ft. 9 in. / 1.45 m	2 ft. 4 in. / 0.71 m	3 ft. 10 in. / 1.17 m

WEIGHTS (EHGW)

MAXIMUM RAMP WEIGHT

65,400 lb. 29,665 kg

MAXIMUM TAKEOFF WEIGHT

65,200 lb. 29,574 kg

MAXIMUM LANDING WEIGHT

62,000 lb. 28,123 kg

MAXIMUM ZERO FUEL WEIGHT

58,000 lb. 26,308 kg

OPERATING WEIGHT EMPTY

38,986 lb. 17,684 kg

MAXIMUM PAYLOAD

19,014 lb. 8,625 kg

CARGO WEIGHT

4,710 lb. 2,136 kg

All data in this document is approximate, may change without notice and is subject to certain operating rules, assumptions and conditions. This document does not constitute an offer, commitment, representation, guarantee or warranty of any kind. The final configuration and performance of this aircraft, and any related commitment, representations, guarantee or warranty, shall be determined in a final purchase agreement.

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