



network builder



Q Series

BOMBARDIER

Q400

GENERAL

Flight Crew	Cabin Crew
2	2 to 3
Passengers	
Combi	50 passengers (32 in. pitch)
Dual Class	74 passengers (36/30 in. pitch)
Single Class	82 passengers (30 in. pitch)
Extra Capacity	90 passengers (28 in. pitch)

AVIONICS INFO*

Advanced Flight Deck

- Thales System with five-screen EFIS/EICAS
- UNS-1E FMS (single or dual)
- Traffic alert & collision avoidance system (TCAS) v7.1
- Capabilities: Coupled VNAV, SBAS/WAAS LPV, RNP AR, ADS-B Out, EGPWS, ACARS, HGS, MicroQAR, Class 2 EFB

ENGINE

2 PW150A turboprops

Thrust

5,071 shp maximum takeoff
4,580 shp normal takeoff

Flat Rating

ISA + 22.4°C

Propellers

2 Dowty model R408, electronically controlled,
6 composite blades

PERFORMANCE

Range (225 lb. / 102 kg per pax.)			
Max	1,100 NM	1,265 SM	2,040 km
Speed			
Maximum Cruise Speed	360 kts	414 mph	667 km/h
High Speed Cruise	340 kts	391 mph	630 km/h
Intermediate Speed	320 kts	368 mph	593 km/h
Long-Range Cruise Speed	300 kts	345 mph	556 km/h

PERFORMANCE (CONTINUED)

Takeoff Field Length (ISA, SL, MTOW)		
Base	4,265 ft.	1,300 m
Max	4,675 ft.	1,425 m
Landing Field Length (ISA, SL, MLW)		
Base	4,160 ft.	1,268 m
Max	4,230 ft.	1,289 m

CEILING

Maximum Operating Altitude

27,000 ft. / 8,230 m

NOISE LEVEL

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

COMBI CONFIGURATION

Cargo Volume

Up to 1,150 ft³ / 32.6 m³

Features

Class C cargo compartment, single and dual flight attendant seats, APU (Hamilton Sundstrand APS 1000)

EMISSIONS (MARGINS TO CAEP6)

NOx	Smoke
63%	77%
UHC (Unburned Hydrocarbons)	CO
39%	76%

EXTERNAL DIMENSIONS

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

INTERNAL DIMENSIONS

Cabin Length	Cabin Max Width (Centreline)
61 ft. 8 in. / 18.80 m	8 ft. 3 in. / 2.51 m
Cabin Width (Floor Level)	Cabin Aisle Height
6 ft. 8 in. / 2.03 m	6 ft. 5 in. / 1.95 m
Cabin Volume	Overhead Bin Volume per Pax.
2,740 ft. ³ / 77.6 m ³	1.7 ft. ³ / 0.05 m ³
Cargo Volume	Floor Area
411 ft. ³ / 11.6 m ³	412 ft ² / 38.3 m ²

DOORS & EXITS

Passenger Door	LH FWD	LH AFT
Height	5 ft. 2 in. / 1.58 m	5 ft. 8 in. / 1.72 m
Width	2 ft. 6 in. / 0.76 m	2 ft. 4 in. / 0.71 m
Height to Sill	4 ft. 0 in. / 1.23 m	5 ft. 1 in. / 1.55 m
Cargo Door	LH AFT	
Height	5 ft. 0 in. / 1.52 m	
Width	4 ft. 7 in. / 1.40 m	
Height to Sill	5 ft. 1 in. / 1.55 m	

WEIGHT

Maximum Ramp Weight

Base	61,900 lb. / 28,077 kg
Max	67,400 lb. / 30,572 kg

Maximum Takeoff Weight

Base	61,700 lb. / 27,987 kg
Max	67,200 lb. / 30,481 kg

Maximum Landing Weight

Base	60,500 lb. / 27,442 kg
Max	64,000 lb. / 29,029 kg

Maximum Zero Fuel Weight

Base	55,500 lb. / 25,174 kg
Max	60,800 lb. / 27,578 kg

Maximum Cargo Weight (Typical configuration)

3,800 lb. / 1,724 kg

Maximum Cargo Weight (Combi configuration)

9,000 lb. / 4,082 kg



Scan to be taken to the Q Series section on the new BCA website



* Some features optional

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