

Q400
NextGen



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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.

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GENERAL

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

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, RNP

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 reserves)			
Q400 NextGen EHGW (74 pax. @ 31" pitch)	1,114 NM	1,282 SM	2,063 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, MTOW, EHGW)			
	4,819 ft.		1,468 m
Landing Field Length (ISA, SL, MLW)			
	4,232 ft.		1,290 m

CEILING

Maximum Operating Altitude	25,000 ft.	7,620 m
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NOISE LEVEL (EHGW)

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

EMISSIONS (MARGINS TO CAEP6)

NOx	21.2 g/kN
UHC (Unburned Hydrocarbons)	5.6 g/kN
CO	86 g/kN

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. 2 in. / 1.58 m	2 ft. 6 in. / 0.76 m	4 ft. 0 in. / 1.23 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
LH AFT	5 ft. 0 in. / 1.52 m	4 ft. 7 in. / 1.40 m	5 ft. 1 in. / 1.55 m
RH FWD	4 ft. 9 in. / 1.45 m	2 ft. 4 in. / 0.71 m	4 ft. 1 in. / 1.27 m

WEIGHTS

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	39,284 lb.	17,819 kg
Maximum Payload	18,716 lb.	8,489 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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