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¹ Compared to similar size regional jet



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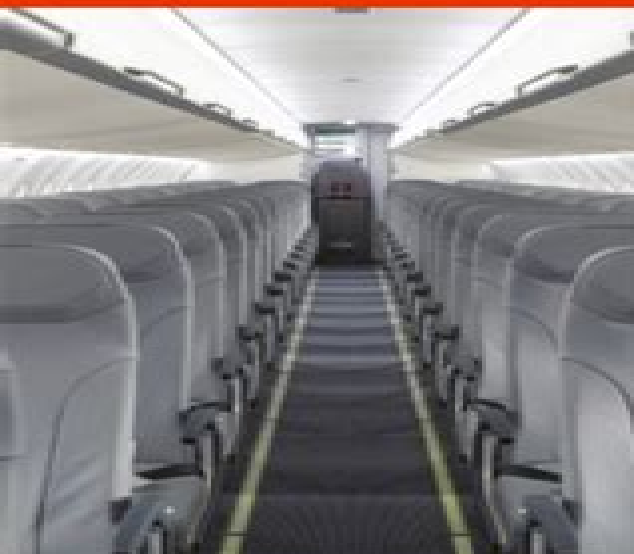
-170 tonnes
CO₂ per year



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Standard configuration

72 seats at 29" pitch



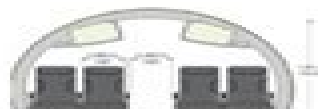
Legend: Cabin crew, Galley, Seats, Restroom, Emergency exits

ENGINES

Pratt & Whitney Canada	PW127XJ-M
Power	2,750 SHP

WEIGHTS

Max take-off weight	22,000 kg	48,500 lb
Max landing weight	22,000 kg	48,500 lb
Max zero fuel weight	20,000 kg	44,294 lb
Operational empty weight (typical)	13,400 kg	29,543 lb
Max payload	7,400 kg	16,313 lb
Max fuel load	8,000 kg	17,634 lb



AIRFIELD PERFORMANCE

Take-off field length

+Q 1000ft - ISA - Sea Level	1,275 m	4,184 ft
+Q 1000ft for 300 NM - Max Pax - ISA - 0 - Sea Level ¹	1,345 m	4,411 ft

Landing field length

+Q 1000ft - ISA - Sea Level (max 40°C)	915 m	2,999 ft
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EN-ROUTE PERFORMANCE

Cruise speed	870 KIAS	
Max cruise speed (no cabin, sea level)	870 KIAS	900 km/h
Fuel consumption (no cabin, sea level)	630 kg/h	1,403 lb/h
One engine-out max ceiling (no cabin, sea level)	2,880 m	9,465 ft
Range with max pax (1)	740 NM	1,370 km

Standard routes ¹	200 NM	300 NM	400 NM
Block fuel	624 kg - 1,376 lb	869 kg - 1,916 lb	1,094 kg - 2,412 lb
CO ₂ emissions	1,971	2,751	3,531
Block time	00:52	01:24	01:47

ENVIRONMENTAL PERFORMANCE

CO ₂ per seat/km ¹	49 g	5.75 lb
NOx per Landing and Take-off cycle	3.1 kg	6.7 lb
Noise certification (ICAO Ch 4) margin ¹	-5.7 EPNdB	

Digital version



Atr 72 Performance Manual

Sabine Zange



Atr 72 Performance Manual:

Safe Take-off with Runway Analyses Boris Urbanek, 2013-05-17 The economic situation of the recent years forces to operate aircraft at highest payloads possible and to load it at its maximum allowable take off masses Therefore take off performance optimization is nowadays as important as never before This book offers a summary of factors affecting the maximum take off mass and appropriate take off speeds which together represent necessary performance data for a safe take off These are usually presented in so called runway analyses That is the reason why this book might be of interest for flight operations engineering personnel or pilots as it answers possible questions about the application and computing of the runway analyses Advanced Aircraft Flight Performance Antonio Filippone, 2012-12-17 This book discusses aircraft flight performance focusing on commercial aircraft but also considering examples of high performance military aircraft The framework is a multidisciplinary engineering analysis fully supported by flight simulation with software validation at several levels The book covers topics such as geometrical configurations configuration aerodynamics and determination of aerodynamic derivatives weight engineering propulsion systems gas turbine engines and propellers aircraft trim flight envelopes mission analysis trajectory optimisation aircraft noise noise trajectories and analysis of environmental performance A unique feature of this book is the discussion and analysis of the environmental performance of the aircraft focusing on topics such as aircraft noise and carbon dioxide emissions **Global Aviation English Research** Eric Friginal, Malila Prado, Jennifer Roberts, 2024-12-12 Advocating for best practices within aviation English language research this volume offers deeper insights into the practical policy based and societal contexts in which International Civil Aviation Organization ICAO language standards are embedded English is the official language for international pilot air traffic controller ATC communications mandated by the ICAO It is also the de facto universal common language for all other forms of communication including the language of maintenance technicians and maintenance manuals aeronautical engineers cabin crew ground staff and aviation business professionals In this book renowned academic experts and aviation professionals come together to explore a variety of research trends providing an effective and efficient analysis of the language needs of the aviation industry its future directions and an extended look at linguistic principles in action Chapters engage in detail with research data case studies and concrete examples of interactional tasks transactional exchanges and radiotelephony They also examine the common vocabulary and phrasal patterns in aviation discourse required to communicate successfully in various roles and contexts within the aviation industry The result is a meaningful contribution to the global development and improvement of standards of aviation research investigations of the role of language in aviation accidents and research into language as a human factor in aviation communications customer service and intercultural mis communication Aircraft Accident Report , 197? **Federal Register** , 2007-08 **An Introductory Guide to EC Competition Law and Practice** Valentine Korah, 1994 **Modelling and Managing Airport Performance** Konstantinos Zografos, Giovanni

Andreatta, Amedeo Odoni, 2013-06-17 *Modelling and Managing Airport Performance* provides an integrated view of state of the art research on measuring and improving the performance of airport systems with consideration of both airside and landside operations. The considered facets of performance include capacity delays economic costs noise emissions and safety. Several of the contributions also examine policies for managing congestion and allocating sparse capacity as well as for mitigating the externalities of noise emissions and safety risk. Key features: Provides a global perspective with contributing authors from Europe North and South America with backgrounds in academia research institutions government and industry. Contributes to the definition interpretation and shared understanding of airport performance measures and related concepts. Considers a broad range of measures that quantify operational and environmental performance as well as safety and risk. Discusses concepts and strategies for dealing with the management of airport performance. Presents state of the art modelling capabilities and identifies future modelling needs. Themed around 3 sections: Modelling Airport Performance, Assessing Airport Impacts and Managing Airport Performance, and Congestion Modelling and Managing Airport Performance. is a valuable reference for researchers and practitioners in the global air transportation community. **Scientific and Technical Aerospace Reports**, 1994. **Twentieth Army Science Conference - Award Winning Papers**. Michael S Shur, Michael A Strosio, Richard Chait, Catherine Kominos, James J Valdes, 1997-06-19. This important volume contains the 21 prize winning papers presented at the Twentieth United States Army Science Conference under the sponsorship of the Assistant Secretary of the Army for Research Development and Acquisition. The theme of the conference was Science and Technology for Force XXI the Force of the Twenty First Century. Original scientific and technical papers written by U S Army civilian and military scientists and engineers addressed the role of science and technology in providing a competitive edge for Force XXI. The papers in this book are in the following key technical areas: advanced materials and manufacturing including structures and energetics; microelectronics and photonics; sensors and information processing including communications; high performance computing and simulation including modeling displays; artificial intelligence and virtual reality; advanced propulsion technologies including mobility and lethality; power generation storage and conditioning including directed energy; biological chemical and nuclear defense; life medical and behavioral sciences including individual sustainability and soldier system interface; environmental sciences and geosciences including atmospheric space and environmental protection; engineering sciences including robotics mechanics fluid dynamics and survivability. **Flight International**, 1987.

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