

ATR 42-500

The Latest Generation ATR 42-500 offers a combination of high overall performance and comfort unmatched in its class, while keeping the competitive economics which are the trademark of ATR aircraft.



A New Standard of Excellence

Quiet cabin features

The ATR 42-500 provides the highest level of passenger comfort in its class. A range of improvements in the field of noise and vibration attenuation has been implemented, namely:

- An optimized, efficient and technologically advanced acoustic treatment of the structure with the installation of Dynamic Vibration Absorbers and skin damping.

- A new look interior engineered for maximum noise attenuation and optimum

comfort, through new materials and absorbent panels and carpets.

Overhead bins volume increased by 40% compared

to previous models, accommodating long items (up to 2m/6.5 ft).



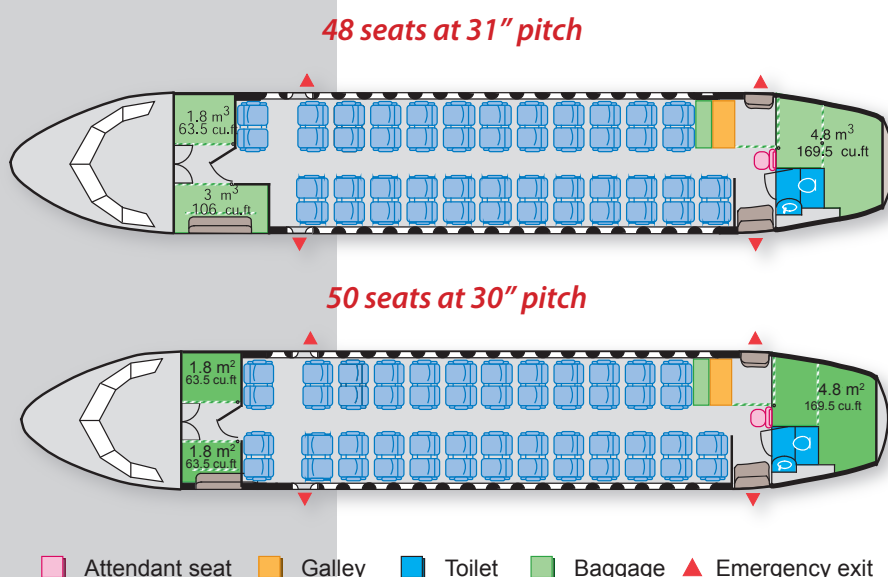
Space and Comfort



Interior design totally renewed

ATR 42-500

Making the best use of available space



Volumes	48 seats@31"		50 seats@30"	
	m³	cu.ft	m³	cu.ft
► Baggage compartment	9.6	339	8.4	296.5
► Baggage per pax	0.2	7.06	0.168	5.93
► Total baggage (incl. overhead bins)	12.25	432.5	11.1	392
► Total baggage per pax	0.255	9.01	0.222	7.84

Performance		
Take-Off Field Length		
► ISA, SL, MTOW	1,165 m	3,822 ft
► 3,000 ft, ISA +10°C, TOW for 300 Nm	1,163 m	3,816 ft
► Landing Field Length (FAR rules)		
- SL, MLW	1,126 m	3,694 ft
- SL, 48 pax at 95 kg, full reserves	1,040 m	3,412 ft
► Max Cruise Speed (97% MTOW, 17,000 ft)	300 kts (560 km/h)	
► Max Range (at full pax payload)	842 Nm (1,560 km)	

Weights		
► MTOW	18,600 kg	41,005 lb
► MLW	18,300 kg	40,344 lb
► MZFW	16,700 kg*	36,817 lb
► Basic OEW	11,250 kg	24,802 lb
► Max. payload	5,450 kg*	12,015 lb
► Max. fuel load	4,500 kg	9,920 lb

* Optional MZFW: 17,000 kg (37,478 lb)
 Associated payload: 5,750 kg (12,676 lb)

Powerplant	
► Same PW127 engines as ATR 72-500	
► Same HS 568F 6-blade propeller as ATR 72-500	
Operational Commonality	
► Common Type Rating with ATR 72-500	
► Cross Crew Qualification with:	
- ATR 42-300/-320	
- ATR 72-200/-210	

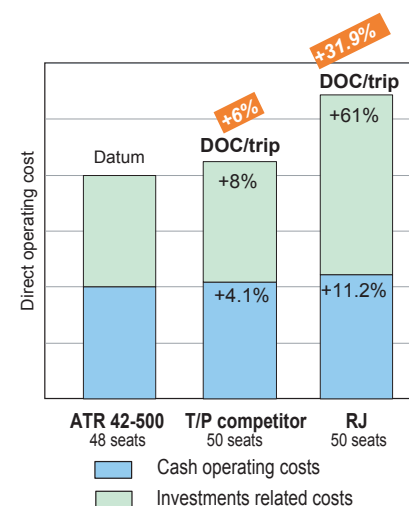
Outstanding Performance

Thanks to the Pratt and Whitney Canada PW127 engines, the ATR 42-500 offers an excellent level of performance:

- A cruise speed of 300 kts (560 km/h);
 - A fast climb from 1,500 ft to 17,000 ft in less than 10 min;
 - Outstanding take-off and single engine performance maintained even in hot and high conditions.
- Generous operational weights adapted to new regulatory standards provide the ATR 42-500 with a maximum range of 842 Nm (1,560 km) or an out-and return trip of 361 Nm (670 km) without refuelling, both at full passenger payload.

Direct Operating Costs

300 Nm (560 km) sector



A Good Neighbour for the Environment

The advanced six-blade propeller provides remarkably low outside noise levels.

The cumulated margin versus ICAO Annex 16 Chapter III requirements is 31.3 EPNdB, with large margins vs Ch. IV limits. Low fuel burn and gaseous emissions contribute to make ATR 42-500 environment friendly.