

ATR -500 SERIES



# ATR 42-500

UNRIVALLED  
PERFORMANCE



## THE REFERENCE IN REGIONAL AIR TRANSPORT

The 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 range of improvements in the field of noise and vibration attenuation has been implemented, namely:

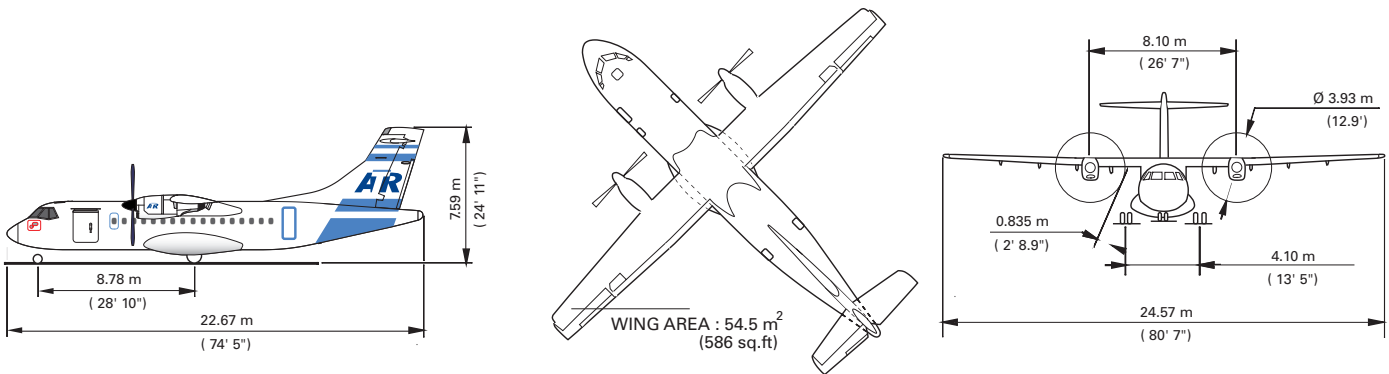
- An optimized, efficient and technologically advanced acoustic treatment of the structure with the installation of Dynamic Vibration Absorbers and skin damping.
- Cabin interiors engineered for maximum noise attenuation and optimum comfort, through advanced materials and absorbent panels and carpets. Additional overhead bins volume compared to previous models, accommodating long items (up to 2m/6.5 ft). The ATR 42-500 is equipped with 2 engines PW127, providing an excellent level of performance with an outstanding take-off and single engine performance maintained even in hot and high conditions.

## PROPELLING TOMORROW'S WORLD



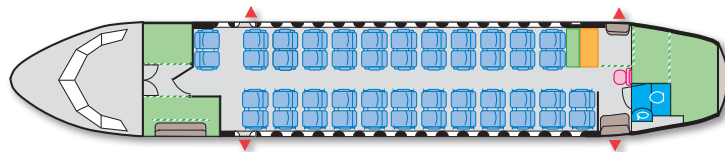
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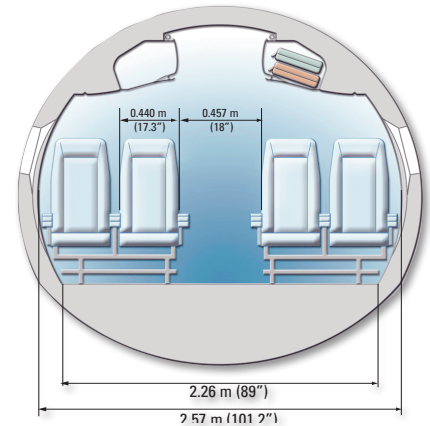


## STANDARD CONFIGURATION

48 seats at 30" pitch



Attendant seat Galley Toilet Baggage Emergency exit



ENGINES	
PRATT & WHITNEY CANADA	PW127E/M
Take-off power	2,160 SHP
Take-off power - One engine	2,400 SHP
Max continuous	2,400 SHP
Max climb	2,160 SHP
Max cruise	2,132 SHP
PROPELLERS	
Hamilton Standard	568F
Blades: 6; Diameter: 3.93 m - 12.9 ft	
WEIGHTS	
Max take-off weight (basic)	18,600 kg - 41,005 lb
Max landing weight (basic)	18,300 kg - 40,344 lb
Max zero fuel weight (basic)*	16,700 kg - 36,817 lb
Operational empty weight (Tech. Spec.)	11,250 kg - 24,802 lb
Operational empty weight (Typical in-service)	11,700 kg - 25,794 lb
Max payload (at typical in-service OEW)	5,300 kg - 11,684 lb
Max fuel load	4,500 kg - 9,921 lb

\* Optional MZFW@17,000 Kg available on demand.

AIRFIELD PERFORMANCE	
TAKE-OFF DISTANCE:	
• Basic (MTOW - ISA - SL)	1,165 m - 3,822 ft
• At TOW for 300 Nm - Max pax - SL - ISA	1,025 m - 3,363 ft
• At TOW for 300 Nm - Max pax - 3,000 ft - ISA +10	1,215 m - 3,986 ft
TAKE-OFF SPEED (V2 min @ MTOW)	112 KCAS
LANDING FIELD LENGTH (JAR 25)	
• Basic (MLW - SL)	964 m - 3,163 ft
• At LW (max pax + reserves) - SL	904 m - 2,967 ft
• Reference speed at landing	104 KIAS
EN-ROUTE PERFORMANCE	
Optimum climb speed	160 KCAS
Rate of climb (ISA, SL, MTOW)	1,851 ft/min
Max Cruise speed	300 KTAS - 556 km/h
(95% MTOW - ISA - Optimum FL)	
Fuel flow at cruise speed	811 kg/h - 1,788 lb/h
Range with max pax	716 Nm
200 Nm Block Fuel	565 kg - 1,246 lb
CO2 Emission	1,780 kg - 3,925 lb
300 Nm Block Fuel	783 kg - 1,727 lb
CO2 Emission	2,467 kg - 5,439 lb

NB: En-route performance computed assuming Max Optional TOW, Typical in-service OEW, 48 PAX@95 Kg, JAR fuel reserves, taxi time allowance: 4 min.