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.

The ATR 42-500 is known as the Reference in Regional Air Transport.
ATR 42-500

STANDARD CONFIGURATION
48 seats at 30” pitch

ENGINES
PRATT & WHITNEY CANADA PW127E/M
Takeoff power 2,160 SHP
Takeoff 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 - 41,055 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
TAKING-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
TAKING-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 KCAS

EN-ROUTE PERFORMANCE
Optimum climb speed 160 KCAS
Rate of climb (ISA, SL, MTOW) 1,851 ft/min
Max Cruise speed (95% MTOW - ISA - Optimum FL) 300 KTAS - 556 km/h
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.
The ATR 72 is recognized as the most cost-effective regional aircraft, positioning it as the industry reference to serve both low-cost/low yields environment. A range of improvements in the field of noise and vibration reduction has been implemented namely:

- An 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, and additional overhead bins including handrail to facilitate passengers and crew movement along the cabin.

Powered by PW 127 engines, the ATR 72-500 provides outstanding short field performance for an aircraft of this size, even on difficult “hot and high” airfields.

PROPELLING TOMORROW’S WORLD
**STANDARD CONFIGURATION**

68 seats at 31° pitch

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**Airfield Performance**

**Take-off distance:**
- Basic (MTOW - ISA - SL): 1,224 m - 4,016 ft
- Option 1 (MTOW - ISA - SL): 1,289 m - 4,229 ft
- Option 2 (MTOW - ISA - SL): 1,333 m - 4,373 ft
- At TOW for 300 Nm - Max pax - SL - ISA: 1,163 m - 3,815 ft
- At TOW for 300 Nm - Max pax - 3,000 ft - ISA +10: 1,399 m - 4,590 ft

**Take-off speed (V2 min @ MTOW):** 115 KCAS

**Landing Field Length (JAR):**
- Basic MLW - SL: 898 m - 2,946 ft
- Option (MLW - SL): 915 m - 3,002 ft
- At LW (max pax + reserves) - SL: 862 m - 2,828 ft
- Reference speed at landing: 113 KCAS

**En-route Performance**

- Optimum climb speed: 170 KCAS
- Rate of climb (ISA, MLTOW): 1,374 ft/min
- Max Cruise speed (95% MTOW - ISA - Optimum FL): 275 KTAS - 510 km/h
- Fuel flow at cruise speed: 762 kg/h - 1,680 lb/h
- Range with max pax: 785 Nms
- 200 Nm Block Fuel: 617 kg - 1,360 lb
- CO2 Emission: 1,944 kg - 4,283 lb
- 300 Nm Block Fuel: 858 kg - 1,892 lb
- CO2 Emission: 2,703 kg - 5,958 lb

NB: en-route performance computed assuming Max Optional TOW, Typical in-service OEV, 68 PAX@95 Kg, JAR fuel reserves, taxi time allowance: 4 min.