ATR FIRST GENERATION



ATR 42-300/-320







Since its introduction into service in December 1985, the ATR 42 has become a reference in the regional air transport industry for reliability and profitability. Remarkably simple to operate and maintain, equipped with efficient, low-fuel-burn engines, the ATR 42 operating costs are 15%–20% lower than the competition.

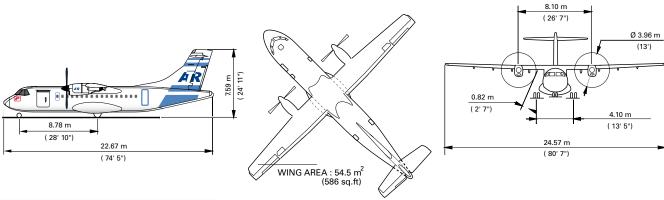
The basic ATR 42-300 is fitted with two PW120 engines rated at 2,000 shp each. The ATR 42-320, fitted with two PW121 engines rated at 2,100 shp each, has been developed to offer increased performance for hot and high conditions and short runway operations. About 400 first generation ATR 42 have been ordered by airlines worldwide, contributing to their development and continuous profitability.

MATCHING CUSTOMER NEEDS

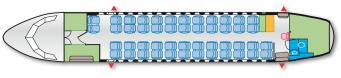


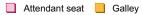
MATCHING CUSTOMER NEEDS

ATR 42-300/-320



48 seats at 30" pitch



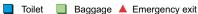












| 0.440 m 17.3 1.91 m 1.91 m 75.2* 1.425 m 56.1* |
|---|
| 2.263 m/89* |
| 2.570 m/101.2" |

| Engines | ATR 42-300 | ATR 42-320 | |
|-----------------------------|------------|------------|--|
| PRATT & WHITNEY CANADA | PW120 | PW121 | |
| Take-off power | 1,800 SHP | 1,900 SHP | |
| Take-off power - One engine | 2,000 SHP | 2,100 SHP | |
| Max continuous | 1,700 SHP | 1,900 SHP | |
| Max climb | 1,700 SHP | 1,700 SHP | |
| Max cruise | 1,619 SHP | 1,700 SHP | |
| PROPELLERS | | | |
| Hamilton Standard | 14 SF-5 | 14 SF-5 | |
| DI I 4 D: 1 20 4 12 fr | | | |

| Blades: 4; Diameter: 39.6 m - 13 ft | | | |
|-------------------------------------|--|--|--|
| | | | |
| 16,700 kg - 36,807 lb | | | |
| 16,900 kg - 37,257 lb | | | |
| 16,400 kg - 36,146 lb | | | |
| 15,200 kg - 33,501 lb | | | |
| 15,540 kg - 34,259 lb | | | |
| 10,290 kg - 22,679 lb | | | |
| 10,900 kg - 24,030 lb | | | |
| 4,300 kg - 9,477 lb | | | |
| 4,500 kg - 9,921 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.

| AIRFIELD PERFORMANCE | ATR 42-300 | ATR 42-320 |
|---|------------------------|------------------------|
| TAKE-OFF DISTANCE | | |
| • Basic (MTOW - ISA - SL) | 1,090 m - 3,576 ft | 1,041 m - 3,415 ft |
| • At TOW for 300 Nm Max pax - SL - ISA | 1,073 m - 3,520 ft | 1,026 m - 3,366 ft |
| • At TOW for 300 Nm Max pax - 3,000 ft - ISA +10 | 1,271 m - 4,170 ft | 1,222 m - 4,009 ft |
| TAKE-OFF SPEED (V2 min @ MTOW) | 108 KCAS | 108 KCAS |
| LANDING FIELD LENGTH (JAR25) | | |
| Basic (MLW - SL) | 886 m - 2,907 ft | |
| • At LW (max pax + reserves) - SL | 864 m - 2,835 ft | |
| Reference speed at landing | 103 KIAS | 103 KIAS |
| EN-ROUTE PERFORMANCE | | |
| Optimum climb speed | 160 KCAS | 160 KCAS |
| Rate of climb (ISA, SL, MTOW) | 1,320 ft/min | 1,320 ft/min |
| Time to climb to FLI170 | 15.1 min | 14.8 min |
| One engine net ceiling (95% MTOW, ISA +10) | 9,580 ft | 10,940 ft |
| Max Cruise speed (95% MTOW - ISA - Optimum FL) | 266 KTAS - 493 km/h | 270 KTAS - 500 km/h |
| Fuel flow at cruise speed | 568 kg/h 1,252 lb/h | 584 kg/h 1,287 lb/h |
| Range with max pax | 456 Nm | 459 Nm |
| 200 Nm Block Fuel | 490 kg - 1,081 lb | 491 kg - 1,083 lb |
| CO2 Emission | 1,544 kg - 3,403 lb | 1,547 kg - 3,410 lb |
| 300 Nm Block Fuel | 669 kg - 1,475 lb | 668 kg - 1,473 lb |
| CO2 Emission | 2,108 kg - 4,648 lb | 2,105 kg - 4,639 lb |
| | | |

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