

KEPPLAIR AIR 72

The Forest **KEEPER**



The **Kepplair 72 "Forest Keeper"** is a twin engine turboprop aircraft, developed from the ATR 72 platform, dedicated to **FIREFIGHTING** operations, with complementary **MULTI-MISSION** capabilities, optimizing its use beyond the forest fires season, and offering a modern, cost-efficient response to growing climate and emergency challenges.

The **Kepplair 72** mid-size tanker can carry up to **7,5T** and is equipped with the gravity-based **Kepplair Evolution Delivery System (KEDS)**, a game-changing water and retardant drop system to support and facilitate ground firefighting operations.

Designed to operate from runways at least 1,200 meters long, the **Kepplair 72** enables rapid reloading while ensuring a high level of safety for ground personnel and a landing-reload-takeoff cycle of less than 10 minutes."

He also have incredible **ENVIRONMENTAL PERFORMANCE** : 40% reduction in CO₂ emissions compared to other mid-size air tankers.

50% LOWER ACQUISITION COST

OPERATING 30% LOWER COST MAINTENANCE

MEDEVAC & PASSENGERS*

CARGO

FIRE FIGHTING

* : Subject to National Authority Approval

Drop Capacity

KEPPLAIR 72 - THE FOREST KEEPER

Multirole version

WATER

7 500 L

≈ 1 981 USG

RETARDANT

6 880 L

≈ 1 818 USG

Firefight only version

WATER

8 500 L

≈ 2 245 USG

RETARDANT

7 798 L

≈ 2 060 USG

AVAILABLE IN 2027

With the official support from



A turnkey or modular operational and technical solution

Keplair Evolution offers a range of optional integrated services :

- **Technical support and comprehensive maintenance**, backed by a dedicated logistics chain
- Operational **training** and **mentoring** programs for **flight crews**
- Technical **training** and **mentoring** programs for **maintenance staff**
- Operational **training** and **mentoring** programs for **ground reload teams**
- Operational **training** programs for **firefighting staff** to ensure optimal integration of the Keplair 72
- **Technical assistance**, including the provision of qualified crews and support during missions. Consulting services on operational doctrine, fleet management, and the optimization of firefighting operations in forests and natural areas, including an aerial component and ground reloading stations

Adapted to the needs of firefighters

- Reload on ground : <5 minutes
- Full cycle (land-refill-takeoff) : <10 minutes
- All terrain types, including rudimentary runways
- Cruising speed : 500 km/h - 270 Kts
- Use of runways from 1,200 to 1,600 metres
- On-board surveillance camera for the safety of ground crews.
- Increased safety for ground personnel during water/retardant refuelling with disengageable propellers

Sales solutions customized to adapt to needs of public agencies and private operators in a B2B approach, and tailored to users' budget constraints (CAPEX/OPEX)

"This product-as-a-service approach makes Keplair 72 a turnkey solution for civil protection and civil defence organisations."

A robust industrial ecosystem and strong strategic partnerships around the Keplair 72

A strategic alliance between 2 major actors in the French aerospace industry

- ➔ **Keplair Evolution**, recognized for its expertise in aerial drop systems
- ➔ **Aerotec & Concept**, backed by its EASA approvals and global experience in aircraft modification

Leading manufacturers partnerships

- ➔ **Trotter Controls**, specialized in the supply of advanced mission equipment for aerial firefighting
- ➔ **ACIA IPRC**, key player in the conversion of regional aircraft, holds the exclusive STC certificate for the Large Cargo Door (LCD) on the ATR family

Major Scientific approach partner

- ➔ **Toulouse Faculty's Institute of Fluid Mechanics (IMFT)**, leading institute of fluid mechanics in Europe, Pr Dominique Legendre undisputed global leader in modelling water-bombing aircraft drops

The aircraft manufacturer's expertise

- ➔ **ATR** a Franco-Italian aircraft manufacturer specializing in regional turboprop airplanes

Operational Partnership

- ➔ **Valabre**, the leading organization for training French firefighters in the field of wildfires



Keplair 72, the solution in the mid-size air tanker segment that combines :

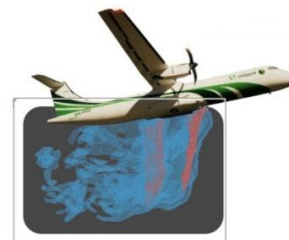
➔ Operational efficiency ➔ Cost-effectiveness ➔ Flexibility

The Keplair72 is based on a particularly reliable and proven platform :

- The ATR 72 aircraft operated in more than 100 countries and by over 200 airlines worldwide
- A large maintenance network
- A high availability of spare parts
- A worldwide pool of qualified pilots

Keplair Evolution Delivery System (KEDS), a scientifically optimized, patented airdrop system

- An innovative asset designed to achieve effective results on the ground to support
 - The operations of field troops
 - Direct-attack airdrops
 - Indirect attacks by deployment of long-term retardant barriers



Modern onboard systems

- Optronics
- Mission systems
- Air-to-ground communications

A reload optimized and safe operational cycle

- Landing / reloading / takeoff < 10 minutes
- Onboard surveillance camera to ensure the safety of ground crews
- Propellers remain stationary while the engine is running

Cargo configuration

- Large Cargo Door,
- Capacity 8T (17600 lbs)
- 75 m³ of cargo

Operational troop transport (subject to approval by national authorities)

- Up to 19 passengers MEDEVAC configuration:(subject to approval by national authorities)
- 4 to 6 stretchers / 2 ICU stretchers, including medical staff
- Seated casualties and family members



Key specifications

PARAMETER	VALUE
Base Platform	ATR-72 twin-turboprop
Crew	2 pilots
Max Takeoff Weight	23 000 kg
Engines	2 x PW127M Turboprop
Max Speed	510 km/h (280 KTAS)
Fuel Capacity	5 000 L - 1320 USG
Drop Capacity	7 500 L - 1 980 USG (7 000 L - 1850 USG retardant)
Drop System	KEDS
Cruise Speed	480 km/h (260 KTAS)
Runway Requirement	1 200 m (estimated)
Mission Endurance	Up to 3-4 hours
Certification Target	EASA CS-25 compliant
First Prototype	Q1 2027

