



AT-802F

INITIAL ATTACK FIREFIGHTER



Over the Fire Line,
All Over the Globe.



WHEN THE HEAT IS ON.

AT-802F: The Most Efficient, Effective Air Tanker Flying.

From the Americas, across Europe, through the Mediterranean, and around the world, the Air Tractor AT-802F continues, season after season, to prove its value as an aerial firefighting asset without parallel.

Designed from the wheels up for the important job it does, the AT-802F combines agility, performance, high reliability, and pinpoint accuracy with a versatility that allows it to operate where other firefighting aircraft can't.

Descended from a long line of the world's most trusted aerial application aircraft, the Air Tractor AT-802F is built for battling fires large and small—not only as an initial attack firefighter, but also for extended duties supporting ground crews.

RAPID RESPONSE.

When Minutes Lost Are Lives and Property At Risk.

A powerful Pratt & Whitney PT6A-67AG turbine engine allows the AT-802F to ferry between the fire and the airfield at speeds approaching 200 mph. Swift transit times coupled with the flexibility to operate from remote airstrips, dirt roads, or small airports near the fire, allow the AT-802F to make an impact on a fire very rapidly.

Because the AT-802F needs as little as 1,000 yards of runway, it's easy to stage from temporary bases close to the fire line. The aircraft's high-volume, 3-inch loading system reduces turnaround times. In as few as five minutes an AT-802F can take on a full 820-gallon load, return to the air and back to the fight.

Once it's over the fire line, the AT-802F can slow things down and deliver its payload low, slow, and right where it's needed to knock down brush and grass fires or suppress fires in heavier canopies. The AT-802F's maneuvering agility, speedy climb rates and compact size make it ideal for mountainous terrain, narrow flight corridors, and wildland-urban interface areas.

This maneuverability also makes the AT-802F well suited for supporting large, higher-flying air tankers, closing retardant gaps and making drops along steep ridge lines and into deep ravines where larger aircraft can't go.

In many operational situations the AT-802F can be more effective than larger air tankers—and far more economical. The AT-802F can deliver almost 1/2 the payload of a twin-turbine engine air tanker for about 1/10th of the capital cost and 1/5th of the operating cost.

Low operating cost, fuel efficiency, and extended operating range also make the AT-802F an ideal air asset for patrol duty—and immediate response—on days when wild fire risk is high.







FRDS GEN II SYSTEM.

Now Better Than Ever.

A big part of the AT-802F's firefighting performance is its GEN II Fire Retardant Dispersal System (FRDS). The GEN II computerized fire gate system utilizes sophisticated technology while withstanding the demands of a rugged operating environment. It demonstrates improved performance, easier operation, greater reliability and simpler maintenance than ever before.

Put the load where it's needed, in exactly the amount needed. The FRDS Gen II system offers a level of consistency, coverage and efficiency that other fire gate designs simply can't provide – and it's only available on the Air Tractor 802F.

Pilots like its simple operation. Dial it in, and let it do its job. On the way to the fire, enter the desired coverage level, drop amount, and ground speed into the FRDS Pilot Interface. When the drop is triggered, the GEN II FRDS responds instantly, automatically opening and closing the fire gate doors with millisecond computer precision that delivers a reliably consistent coverage level. Dependable, accurate retardant drops, time after time, day after day.

Because the GEN II FRDS automates many calculations and functions, the pilot's concentration can remain where it should be, on flying the aircraft in challenging flight conditions.



THERE IS STRENGTH IN NUMBERS.

AT-802F Fire Response Flight Groups.

In many places around the world, fire agencies are boosting their firefighting capability by combining 802F aircraft as coordinated flight groups. It's an effective, cost-efficient strategy for quickly containing a fire and limiting associated loss costs and damages. A flight of four land-based Air Tractor 802F air tankers can deliver 3,200 gallons, with the ability to contain small shrub-fueled fires (2.5 to 3.5 acres) with one round of retardant. Larger fires can be contained with four 802F aircraft if roads or natural breaks can be incorporated as containment lines.

Applying this fire response method, agencies can custom tailor their level of response to the fire size and behavior. A flight of two, three or four 802F aircraft can be dispatched based upon initial information and fire potential. And if an aircraft or pilot becomes unavailable, then a 3/4 flight of 802F aircraft can still deliver 2,400 gallons to the fire on initial response.

When multiple Air Tractor 802F aircraft are stationed at a base, fire agencies can realize benefits in economy of scale, maximized engineering manpower and support, and improved uptime with common parts inventory efficiencies. This is in addition to the already economical operating costs of the AT-802F.

AT-802F flight groups have the ability to work from mobile retardant loading bases at any suitable AT-802 landing area in close proximity to a fire or fire complex. This forward-leaning, dynamic response strategy not only reduces dispatch distance and increases the volume per flight hour, but also reduces the delivery time and cost of retardant to the fire.





Standard Equipment

- » Pratt & Whitney PT6A-67AG 1350 SHP turboprop engine
- » 5-blade constant speed reversing Hartzell propeller
- » 3-inch dual bottom loading valves
- » 820 gallon fiberglass hopper, heat cured derakane resin
- » 18-gallon foam tank
- » Hydraulically driven rotary actuator to operate fire gate doors
- » Computer-controlled doors to provide even flow rate
- » Pilot interface to select gallons to drop, coverage level, and ground speed adjustment
- » Accelerometer for automatic adjustment for fire doors
- » 274 square inch vent door
- » Streamlined fiberglass fairings for fire gate
- » Pump shut-off valve
- » 3-color polyurethane paint finish
- » 32-inch low-pressure tires with dual 4-piston brakes
- » Electrically operated high lift flaps
- » 300 amp starter-generator
- » 254 gallon fuel tanks
- » Strobe lights
- » 600-watt retractable landing lights
- » Nose mounted taxi lights
- » Turn windows
- » Air conditioned cockpit
- » Cabin heater
- » Windshield washer and wiper
- » Fuel flowmeter
- » Quick-detach 3" spray system
- » Electric turn coordinator
- » Hoerner wingtips
- » Outside air temperature gauge
- » Fire extinguisher
- » 16,000 pound FAA certificated gross weight

Specifications

Engine type	PT6A-67AG	Empty Wt. (2-seat)	7,210 lb.	Wingspan	59.25 ft.
Engine SHP & RPM	1350 @ 1700	Useful Load (1-seat)	8,950 lb.	Length	35.7 ft.
Propeller (Hartzell)	HC-B5MA-3D/M11691NS	Useful Load (2-seat)	8,790 lb.	Wing area	401 sq. ft.
Propeller diameter	118.0 in.	Hopper capacity	820 U.S. gal.	Main wheel tire size	32.0 in.
FAA Cert. Gross Wt.	16,000 lb.	Hopper capacity	109.6 cu. ft.	Tail wheel tire size	6.25 x 6
FAA Cert. Land. Wt.	16,000 lb.	Foam tank capacity	18.0 U.S. gal.	Never exceed speed (below 12,500 lbs.)	227 mph CAS
Empty Wt. (1-seat)	7,050 lb.	Fuel capacity	254 U.S. gal.	Never exceed speed (above 12,500 lbs.)	167 mph CAS

Optional Equipment

- » Optional engine is PT6A-67F
- » Two-seat configuration
- » Conversion package to remove fire gate and doors to install Ag model hopper adapter, Transland 38-inch gate, spray pump, plumbing
- » Bottom loading system for foam tank
- » Smoker
- » Night work lights (in addition to night flight package)
- » Retractable 600W landing light in L/H wing at tip
- » Vertical speed indicator
- » Attitude gyro
- » Attitude gyro in lieu of electric turn coordinator (all 802 models)
- » Clock
- » S-Tec 2-axis autopilot (all 802 models)
- » ACK E-04 emergency locator transmitter
- » GPS panel in lieu of standard
- » Garmin Avionics Suite
 - / Audio Panel
 - / GPS/NAV/COM
 - / Transponder with blind encoder
- » King Avionics Suite
 - / Audio Panel
 - / COM
 - / NAV/COM
 - / HSI
 - / DME
 - / Transponder with blind encoder
- » Ferry fuel system (international)
- » 308-gallon fuel tanks
- » 380-gallon fuel tanks
- » White paint scheme in lieu of yellow
- » Lightning safe features
- » Amphibious float preparations
- » Fuel control manual override
- » Engine fire detection system

Estimated Performance

Cruise speed empty @ 8,000 ft. (66 gph)	187 mph	Stall speed @ 16,000 lb. flaps up	105 mph	Take-off distance @ 16,000 lb.	2,000 ft.
Cruise speed empty @ 8,000 ft. (88 gph)	221 mph	Stall speed @ 16,000 lb. flaps down	91 mph	Landing distance (empty)	800 ft.
Working speed (typical)	120 - 125 mph	Stall speed as usually landed	69 mph	Range, economy cruise (66 g.p.h.), empty	800 mi.
		Rate of climb @ 16,000 lb. 1220 SHP	850 fpm		



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MULTI-ROLE CAPABILITY.

All-Season Versatility.

When equipped with Wipaire amphibious floats, the 802F Fire Boss becomes a scooper water bomber, able to land on and scoop water from nearby lakes, rivers and reservoirs. When close to a water source, the 802F Fire Boss can deliver up to 14,000 gallons per hour for extended attack or ground support. An unimproved runway or water-side ramp and fuel are all it needs to be a highly cost-effective forward attack air tanker.

And when fire season is over, the AT-802F is ready to go back to work – not back into the hanger. The same qualities that make the AT-802F a superior aerial fire fighter also make it perfectly suited for forest restoration in the wake of wildfires. Its 800-gallon capacity, speed and maneuverability help to make quick work of hydromulch application or reseeding for erosion control. And the AT-802F is perfect for other types of forestry protection duties, including aerial application to control gypsy moth, spruce budworm or other pests, and timber fertilization for increased growth.







A white Sikorsky HO4S Fire Boss helicopter is parked on a grassy field. A person in a blue shirt and pants stands next to it, looking towards a rocky hillside in the background. The hillside is covered in smoke, indicating a fire. The helicopter has a blue stripe along its side and a blue stripe on the tail.

The 802F Fire Boss can deliver up to 14,000 gallons per hour for extended attack or ground support when scooping within 5 miles of the fire.



GLOBAL SUPPORT 24/7.

Beyond the fire and smoke, behind every Air Tractor AT-802F at fire bases around the world is a global network of Air Tractor dealers who help keep these first responders ready for duty. For more than 20 years the AT-802F has been backed by one of the industry's most wide-reaching and resourceful parts, service and sales networks.

That means you can count on receiving Air Tractor support when and where you need it. Air Tractor dealers understand that readiness and uptime are crucial to firefighting effectiveness. So around the clock and around the world—whether it's a replacement part expedited to your location, training for your maintenance technicians, aircraft repair or pilot transition training – your Air Tractor dealer will be standing by, ready to respond quickly to your needs.





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