

W E A T H E R L Y

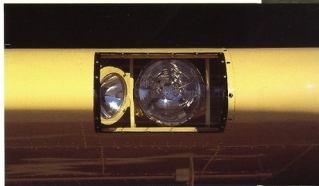
620•B



THE AIRPLANE
THAT WORKS
FOR YOU.

620•B

W
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Wing

Night

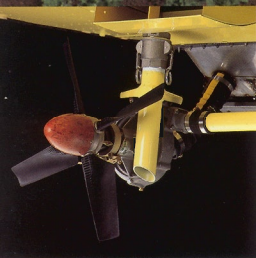
Lights

OUTSTANDING COCKPIT VISIBILITY

IF YOU ALWAYS LIKE TO SEE WHERE you're going, where you've been and what you're doing, you should be flying the 620B. Minimal cockpit obstructions combine with a 4-way adjustable seat to achieve the best possible visibility.

WEATH-AERO FAN CUTS COSTS

Weatherly's leadership continues with the innovative Weath-Aero fan. Its blades feather during ferrying and at the end of a spray run. This reduces drag to a small fraction of the drag offered by old-fashioned fixed pitch, brake type fans. The operator adjusts the blade angle during flight to obtain the needed boom pressure. This results in better control of the spray pattern, keeping you another step ahead of the competition. Weatherly's competitors offer the Weath-Aero fan as an option — Weatherly Aviation offers it as standard equipment.



Pratt & Whitney
& Hartzell
Combination



Weath-Aero
Fan &
Pump
Assembly



Oleo Strut
Type
Landing
Gear

PERFORMANCE

Maximum speed (without spreader, hopper empty)*	176 mph (283 kph)
Maximum speed (with spreader, hopper empty)*	155 mph (249 kph)
Cruise speed @ 70% power	115 mph (185 kph)
Maneuvering speed	129 mph (208 kph)
Stall speed (unloaded, standard equipment)*	54 mph (87 kph)
Stall speed (4,000 lbs. gross, standard equipment)*	57 mph (92 kph)
Stall speed (5,000 lbs. gross, standard equipment)*	65 mph (105 kph)
Take-off distance @ 5,900 lbs.*	1,210 ft. (368.8m)
S. L. rate of climb @ 5,900 lbs.*	700 ft./min. (213.3mpm)
Service ceiling	15,000 ft. (4,572m)
Fuel burn rate	21-24 gph (79-91 lph)

*Standard day conditions

SPECIFICATIONS

Empty weight (with standard equipment)	2,840 lbs. (1,288.2kg)
Certified gross weight	4,000 lbs. (1,814.4kg)
Typical Part 8 operating weight**	5,900 lbs. (2,676.2kg)
Typical Part 8 useful load**	3,060 lbs. (1,388.0kg)

**Under Part 8, operator may choose own gross weight within approved limits.

DIMENSIONS

Wing span	46 ft. 8 in. (14.22m)
Length	26 ft. 9 in. (8.15m)
Height	8 ft. 0 in. (2.44m)
Wing area	277 sq. ft. (25.73 sq.m)
Main gear tread width	10 ft. 6 in. (3.2m)
Main gear tire size	8.50 x 10
Tail wheel tire size	12.5 x 4.5

CAPACITIES

Materials hopper (44.7 cu. ft.)	335 gallons (1,266 liters)
Usable fuel (97.5 gallons total)	90 gallons (341 liters)
Oil (total)	7.7 gallons (29.1 liters)

620B STANDARD EQUIPMENT

- All metal airframe and control surfaces
- Pratt & Whitney R-965-AN-1, -3 or -14B engine (450 HP)
- All new 3-blade Hartzell propeller; HC-B3R30-4B hub, R10152-5 1/2R blades
- 97.5 gallon fuel capacity
- 3 piston Cleveland brakes
- 24 volt electrical system with 45 amp alternator
- Aerodynamically balanced, ball bearing mounted control surfaces
- Stainless steel rudder cables
- Spring tail wheel assembly with full swivel locking wheel
- Quick detach fuselage access panels
- Main gear and cockpit wire cutters
- Wire deflector cable (canopy to vertical fin)
- Landing, navigation and cockpit lights
- Fiberglass tail fairings
- 3 color polyurethane paint with additional corrosion proofing in critical areas
- 335 gallon (44.7 cu. ft.) heavy duty fiberglass hopper with window
- 2.5 in. bottom load tube, less valve
- 2 in. Argonautics spray pump and Argonautics 3-way valve
- 2 in. spray system with trailing edge and streamlined aileron booms, including 40 nozzles.
- Adjustable rudder pedals
- Control lock
- 3 in. cabin fresh air system
- 4-way adjustable seat with open nylon mesh covering
- Baggage compartment
- Engine ring cowl
- Electronic tachometer
- Engine Oil Filter

620B OPTIONS

- Instrument installation
- Spray system emergency cut off valve
- Trailing edge and aileron boom (in place of standard Pylon mounted drop boom)
- 60 nozzle high volume spray configuration
- Micronair AU-5000 Mini-Atomizers with drop boom
- Solids spreader
- Dry materials hopper agitator
- Automatic Flagman
- Night lighting system consisting of two 600-watt adjustable working lamps, two 250-watt turning lamps, wing tip strobes, instrument panel lighting and 70 amp alternator
- Air conditioner
- Pneumatic Spray Boom System
- Hopper rinse out system

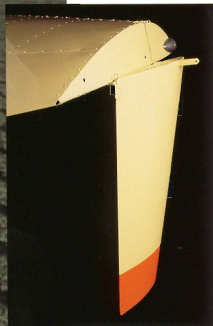


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Folded

Wing Tip



TIP VANES FOR INCREASED EFFICIENCY

Only Weatherly airplanes offer the wing tip vane feature. They diffuse the normal formation of the wing tip vortex, creating a strong downwash outboard of the tip, introducing smaller vortices in the tip area. This results in both a delay in the formation of the trailing vortex and a decrease in its intensity. What the operator sees is an increase in the speed of the airplane at a given power setting and a more even distribution of the spray pattern. Competitive aircraft will have tip vanes one day, but until then, you can only get them on a Weatherly.

HEAVY-DUTY LANDING GEAR

Among the strongest in the industry, the 620B's landing gear has been completely redesigned from earlier models. The 620 series airplanes feature oleo type suspension, pinned at the spar so that landing loads are transmitted to the spar in a manner that avoids twisting stresses. A trailing strut carries forward and aft loads during landing. The landing gear's wide track provides excellent ground handling characteristics not available from a spring type landing gear. There are also no side loads on the tires during normal landings. This means

that you can be flying while your competitor is driving to the tire store!

EFFECTIVE CONTROL OF SPRAY PATTERN

Efficient control surfaces, tip vanes and the Weath-Aero fan work together with the 620B's agile flight characteristics and instant control responses to enable you to do a better job than competitors who only wish they owned a Weatherly. The airplane puts the spray where you want it — and keeps it from going where you don't. An environmentalist may even invite you to lunch!

RUGGED CONSTRUCTION

The 620B fuselage features monocoque construction to reduce airframe weight. It allows simple less expensive replacement in the unlikely event that damage occurs. Large openings and removable panels make the 620B easy to inspect and maintain. The hopper has been redesigned to make it sturdier and more chemical-resistant.

RELIABLE PRATT & WHITNEY R-985 POWER

Because the Weatherly 620B is an efficient airplane, it can carry the same load as its competitors with less power. This means less fuel and more profit. The R-985 costs less to feed, less to maintain and less to overhaul than the larger engines used in competitive airplanes. Yet most operators are able to haul a full load of 335 gallons of spray. The R-985 with the Hartzell 3-bladed propeller is a much quieter combination as well.

NIGHT LIGHTING OPTION

The Weatherly night lighting system allows you to work while your competition sleeps. This option features two 600 watt lights, turning lights, wing tip strobes along with a larger alternator. It effectively lights the flight path for safe night spraying and fertilizing operations.

The 620B is a rugged, versatile ag-airplane — especially designed to make you money. Its reliable Pratt & Whitney R-985 engine provides enough power to haul a full early morning hopper load without consuming fuel at the rate of most competitive airplanes. • The 620B flies like an airplane — not like a tractor. Its impressive performance offers owner-operators of 620Bs many profit making advantages.



THE 620B ALLOWS YOU TO SPRAY WHERE YOU WANT TO

- The airplane is nimble and quick.
- Wing tip vanes control the tip vortex, reducing drift.
- Aerodynamically balanced controls allow precision flying.

THE 620B REDUCES PILOT FATIGUE

- Control forces are light.
- Noise levels are low.
- Spacious cockpit

THE 620B MAKES YOU MONEY

- Less fuel is used to pull the airplane through the air.
- It hauls more load, faster and at less cost.
- Tire wear is far less than with spring gear airplanes.
- 90 gallons of usable fuel

THE WING'S THE THING

- The 620B wing has a high lift to drag ratio, resulting in excellent all-around performance for ag operations.
- With a 15 percent thickness wing you can fly slowly over a small field — performing jobs your competitors only wish they could.