

Built/flown 2008 by high time airline pilot, master homebuilder.

The Aero Adventure Aventura HP is a single-seat ultralight amphibian aircraft designed for the U.S. FAR 103 Ultralight Vehicle category. Below are the key specifications based on available information:

## General Characteristics

- **Crew:** 1
- **Length:** 20 ft 6 in (6.25 m)
- **Wingspan:** 27 ft 10 in (8.48 m)
- **Height:** 6 ft 0 in (1.83 m)
- **Wing Area:** 156 sq ft (14.5 m<sup>2</sup>)
- **Empty Weight:** 328–390 lb (149–177 kg), depending on configuration
- **Gross Weight:** 950 lb (431 kg)
- **Fuel Capacity:** 12 U.S. gallons (45 L) standard; up to 18 gallons (68 L) with optional tank
- **Powerplant:** Typically a 50 hp (37 kW) Rotax 503 two-cylinder, two-stroke engine; options include:
  - 28 hp (21 kW) Rotax 277 (early models)
  - 40 hp (30 kW) Rotax 447
  - 64 hp (48 kW) Rotax 582
  - Up to 90 hp (67 kW) engines like the Viking 90 HP four-stroke for enhanced performance
- **Propeller:** Warp Drive Composite Propeller, ground adjustable

## Performance

- **Cruise Speed:** 75 mph (121 km/h) at 75% power
- **Range:** Approximately 250 mi (400 km, 220 nmi), depending on engine and fuel configuration
- **Rate of Climb:** 700–1,000 fpm (3.6–5.1 m/s) at gross weight
- **Takeoff Distance:** Less than 100 meters (328 ft) for STOL performance on land or water
- **Stall Speed:** Not explicitly listed, but typical for ultralight amphibians (likely around 30–40 mph with flaps)

## Design and Features

- **Class:** Ultralight (FAR 103 compliant)
- **Category:** Amphibian (capable of operating on land and water)
- **Construction:** Fiberglass hull, aluminum frame with pre-sewn Dacron wing covers, polyethylene wingtip floats
- **Landing Gear:** Repositionable main gear (down for land, up for water), retractable steerable tail wheel, no water rudder
- **Additional Features:**
  - Electric flaps

- Optional electric landing gear retraction
- Small storage area in the hull
- Open-cockpit design with optional enclosed doors
- High-wing, pusher configuration for unobstructed visibility

## Notes

- The Aventura HP is marketed as a kit aircraft, emphasizing simplicity and affordability for homebuilders.
- The specifications may vary slightly depending on engine choice and optional equipment.
- The Warp Drive propeller's ground-adjustable pitch allows for fine-tuning performance based on specific flight conditions.

*Sources:* Information compiled from Aero Adventure's official descriptions, Kitplanes, and Swish Projects.  
[en.wikipedia.org](http://en.wikipedia.org)  
[swishprojects.com](http://swishprojects.com)  
[aukitplanes.com](http://aukitplanes.com)

If you need further details or have questions about specific configurations, let me know!