EUROCOPTER AS350B3E Model Guide

EUROCOPTER AS350B3E is a Eurocopter / Airbus Helicopters AS350 B3-series helicopter. The supplied checklist is titled AS 350 B3 e. The library lists it as piston, but the registry data and checklist terms (TOT, Ng, N1) point to a turboshaft. Registry figures are family-level 'up to' values, not this variant's.

KEY TAKEAWAYS

- Family-level maxima for the 350 line: up to 550 nm range, 135 kt cruise, 2500 kg MTOW, 5 passengers, 17000 ft ceiling. Confirm this variant's figures in its flight manual.
- The sources conflict on engine type: the library says piston, the registry says turboshaft, and the checklist uses turbine terms. Confirm in the aircraft papers.
- If an inlet barrier filter is fitted, check its condition. Performance drops as the filter clogs, and the climb-rate penalty applies.
- Flight in falling snow is forbidden without a sand filter. With the Donaldson inlet barrier filter installed, the supplement permits it.

INLET BARRIER FILTER (IBF)

The supplement covers a filter kit with a bypass door, a differential pressure switch and a ground-readable filter maintenance aid. A cockpit FILTER light shows a clogged filter, and the pilot can open the bypass. Avoid dusty operation with the bypass open. On AS350B3 Arriel 2D aircraft with H125 Power, subtract 140 ft/min from basic rate of climb after an engine power check. Maintenance data sets a 150 hour inspection interval.

CHECKLIST AND WARNING POINTS

Check fuel and battery limits. The FUEL warning at under 48 kg leaves at most 15 minutes at MCP. On battery alone, the maximum time is 50 minutes by day and 20 minutes by night. ENG CHIP and MGB CHIP warnings call for landing as soon as possible. At shutdown the G430 GPS must stay on, and the VEMD data is reported for the tech log.

WHAT TO CHECK WHEN BUYING

Confirm the engine type and the fitted modifications in the papers. Check that the filter maintenance aid is in the green zone, the bypass doors close, and no quarter-turn filter fasteners are missing. Ask whether a sand filter or inlet barrier filter is fitted, because the snow limitations and performance corrections depend on it. Review the VEMD records.

PERFORMANCE

Family Max Range Nm	550
Family Max Cruise Speed Kt	135
Family Max Service Ceiling Ft	17000

V-SPEEDS

Vy Kt	70
Tail Rotor Failure Autorotation Kt	65

SAFETY NOTES

- Engine failure: enter autorotation immediately; if altitude permits, try an engine air restart.
- Engine fire in flight: land immediately, reduce collective, fly at Vy (70 kt), and shut off fuel.
- Missing quarter-turn filter fasteners may damage the engine and must be replaced.

AI-aggregated guide for the EUROCOPTER AS350B3E · sources: H125-AS350B3e-Checklist-Full (#100011) · Supplement No. AFS-AS350B-IBF-FMS (#102875) · INLET BARRIER FILTER SYSTEM (#100114) · generated 2026-11-24 · Reference only, not for flight. Check the original documents before relying on this guide.