

AGUSTA AW139 Model Guide

AGUSTA AW139 is an Agusta helicopter also known as AB139. The two names identify one product built under a single Type Certificate Data Sheet. Registry data for the model family shows a turboshaft class, up to 15 passengers and up to 6000 kg MTOW. The library entry's 'single-engine piston' label conflicts with this, so disregard it and confirm the configuration against the aircraft's own flight manual.

KEY TAKEAWAYS

- AW139 and AB139 are two names for one product under a single type certificate. The QRH applies to both unless it says otherwise.
- Family-level maxima: up to 400 nm range, 151 kt cruise, 12000 ft service ceiling and 6000 kg MTOW. Verify your airframe's own figures.
- The QRH is a quick reference only. Where it conflicts with the approved RFM (flight manual), the RFM takes precedence.
- Mandatory Bollettino 139-269 (September 30, 2011) requires an operational check of both hydraulic systems, then periodic repeats.

LIMITS AND OPTIONS TO CONFIRM

The QRH covers weight and CG, speed, altitude, temperature, height-velocity, engine and fuel limits, plus Category A and Category B procedures. An increased gross weight of 6800 kg and a take-off and landing altitude extension to 19000 ft are listed as 'if applicable'. Ask which options are approved for the aircraft you are buying.

DOCUMENTATION AND CURRENCY

The QRH copy reviewed is Issue 1 (15-09-2006), Rev. 21 (09-08-2010). It is marked 'unmaintained copy, for information only', so it is not a current reference. Ask for the current RFM and its revisions. Check the logbook for entries showing which service bulletins have been done.

HYDRAULIC SYSTEM CHECK BULLETIN

B.T. 139-269 applies to AB139/AW139 S/N 31005 and later (with listed exceptions) that had no hydraulic functional test in the prior 50 flight hours. Compliance is due within 50 flight hours or 2 months. The work is about 2 man-hours. It checks both flight control shutoff valves and the emergency landing gear shutoff valve. Circuit pressure should hold at 207 bar (3000 psi).

PERFORMANCE

Max Range Nm	400
Max Cruise Speed Kt	151
Max Service Ceiling Ft	12000

SAFETY NOTES

- During the hydraulic check, closing a shutoff valve must trigger Master Caution, the HYD PRESS light and the HYD PRESS and SERVO messages. If it does not, the valve stays open and needs action.
- B.T. 139-269 is mandatory. Make sure the aircraft log book shows its accomplishment and that the bulletin was passed on to you if ownership changed.