

VANS RV-12IS Model Guide

VANS RV-12IS is a light sport aircraft (single-engine piston) from Van's Aircraft. Its Pilot's Operating Handbook (POH) says it complies with ASTM F 2245 and is powered by a Rotax 912 iS (a 912 ULS version also appears in the manuals). The registry data and library specs are empty, so the figures below come from a flight-school checklist for the RV-12. Check them against the current POH before you buy.

KEY TAKEAWAYS

- Fuel tank holds 19.8 gal total, but only 15.8 gal is usable in climbs. Plan fuel with that in mind.
- Checklist V-speeds: Vne 136, Vno 108, Vfe 82, Vy 75 kts. Stall speeds are 45 (Vs1) and 41 (Vso) kts.
- Owners must follow Van's maintenance manual and service notices, and keep Van's updated with their contact details.
- The POH is at Rev 14.1 and stall speeds were revised in Rev 10. Make sure the airplane's papers match the current revision.

CAPACITY AND LOADING (CHECKLIST DATA)

The checklist lists 769.0 lb empty weight (that school's aircraft), 1320 lb maximum, and a 50 lb baggage limit. Fuel is 19.8 gal total, 15.8 gal usable in climbs. Oil is 3.2 qts of AeroShell Sport Plus 4, with 50/50 glycol/distilled water coolant. Weigh the actual airplane and use its own weight-and-balance data.

LIMITS AND FUEL

Checklist limits: max crosswind 11 kts, max total wind 30 kts. Aerobatics and spins are prohibited. Fuel is listed as 91 octane or higher mogas (preferred) or 100LL. The POH history notes added MOGAS restrictions and a normal fuel pressure range of 40.6 to 55.1 psi.

WHAT TO CHECK WHEN BUYING

Confirm the POH revision and that the stall speeds match Rev 10. Look for open service notices on the RV-12 Service Information page. Check the ELT, spar pins, and fuel system (gascolator, filters, vapor lock guidance). Tire pressures are listed as 25 psi main and 22 psi nose. Ask which engine, 912 iS or 912 ULS, and which avionics are fitted.

SPECIFICATIONS

Fuel Capacity Gal	19.8
Usable Fuel Climb Gal	15.8
Max Baggage Lbs	50

PERFORMANCE

Max Crosswind Kts	11
Max Total Wind Kts	30
Best Glide Kts	63

V-SPEEDS

Vne Kts	136
Vno Kts	108
Va Kts	90
Vfe Kts	82
Vy Kts	75
Vx Kts	60
Vs1 Kts	45
Vso Kts	41

WEIGHT & BALANCE

Empty Weight Lbs	769
Max Weight Lbs	1320
Max Baggage Lbs	50
Pilot Passenger Arm Inches	78.85
Fuel Arm Inches	110.28
Baggage Arm Inches	110.81

SAFETY NOTES

- Aerobatic maneuvers and spins are prohibited per the checklist. Maximum crosswind is 11 kts.
- The checklist warns against an engine start below -25oC or above 50oC. Starter use is 10 seconds maximum, then wait 2 minutes.
- The POH revision history shows added egress hammer and emergency egress procedures. Make sure they are fitted and known.