

CONTENT

SECTION 1: GENERAL, Basic EV-97 VLA Type Design

- I. General
- II. Certification Basis
- III. Technical Characteristics and Operational Limitations
- IV. Operating and Service Instructions
- V. Notes

SECTION 2: CHANGES/VARIANTS

(Reserved)

SECTION 1: EV-97 VLA

I. General

Data Sheet No.: EASA.A.029	Issue: 01	Date: February 4, 2005
1. a) Type:	EV-97 VLA	
b) Variant:	EV-97 VLA	
2. Airworthiness Category:	Very Light Aeroplane	
3. Type Certificate Holder:	EVEKTOR, spol. s r.o. Kunovice-letiste 686 04 Kunovice CZECH REPUBLIC	
4. Manufacturer:	EVEKTOR-AEROTECHNIK a.s. Letecka 1384 686 04 Kunovice CZECH REPUBLIC	
5. Certification Application Date:	April 6, 1999	
6. CAA CZ Certification Date:	January 13, 2003	
7. The EASA Type Certificate replaces The CAA CZ Type Certificate No. 03-01		

II. Certification Basis

1. Reference Date for determining the applicable requirements:	April 6, 1999
2. (Reserved)	
3. (Reserved)	
4. Certification Basis:	As defined in CRI A-01, latest Issue
5. Airworthiness Requirements:	JAR-VLA, issued April 26, 1990, including amendments VLA/91/1, dated October 22, 1991 and VLA/92/1, dated January 1, 1992
6. Requirements elected to comply:	None
7. EASA Special Conditions:	None
8. EASA Exemptions:	None
9. EASA Equivalent Safety Findings:	None
10. EASA Environmental Standards:	Noise: ICAO Annex 16, Volume I, Chapter 10, FAR Part 36, Amdt. 36-22, Appendix G Emission: N/A

III. Technical Characteristics and Operational Limitations

1. Type Design Definition: Airplane EV-97 VLA G0 00-00 01
2. Description: The EV-97 VLA is a two-seater, all metal, cantilever low-wing monoplane with two side-by-side seats, fixed tricycle landing gear, tractor propeller.
3. Equipment: The minimum equipment is listed in approved EV-97 VLA Flight Manual, No. EVLA 001.00-AS.
4. Dimensions:

Wing Span	8.100 m
Total Length	5.980 m
Maximum Height	2.335 m
Wing Area	9.790 m ²
5. Engine/s:

No.	1
Model:	Rotax 912 S
Type Certificate:	TW9 – ACG issued by AUSTRO CONTROL (Austria)

 - 5.1 Engine Limits:

Maximum Take off Power	73.5 kW/5800 RPM (max. 5 min.)
Maximum Continuous Power	69 kW/5500 RPM
6. (Reserved)
7. Propeller/s:

No.	1
Model	V 230E
Type Certificate	CAA CZ 96-04
Number of blades	2
Diameter:	1625 mm
Sense of Rotation	clockwise
8. Fluids:
 - 8.1 Fuel: EUROSUPER RON unleaded according to EN 228 or DIN 51607 or AVGAS 100 LL.
 - 8.2 Oil: Automotive oil, classification SF, SG, according to API.
 - 8.3 Coolant: Combinational cooling: water and air
9. Fluid capacities:
 - 9.1 Fuel:

Total:	67 liters
Usable:	64.5 liters
 - 9.2 Oil:

Maximum:	3.0 liters
Minimum:	2.0 liters
10. Air Speeds:

Design Manoeuvring Speed V _A	200 km/h IAS
---	--------------

Maximum Flap Extended Speed V_{FE}	
flaps 15°	V_{FE15} 145 km/h IAS
flaps 40°	V_{FE40} 135 km/h IAS
Maximum structural cruising speed V_{NO}	205 km/h IAS
Never exceed speed V_{NE}	270 km/h IAS
11. (Reserved)	
12. Operational:	VFR Day Flight into expected or actual icing conditions is prohibited.
13. Maximum Masses:	
Take-off	575 kg
Empty Weight	340 kg \pm 3%
14. Centre of Gravity Range:	13,8 - 32 % MAC [MAC is 1230mm; 0% MAC is at 20mm aft of the reference datum]
15. Datum:	The reference datum is the leading edge of the wing
16. (Reserved)	
17. Levelling Means:	
Longitudinal axis:	leveling point No. 1L and 2L
Lateral axis:	leveling point No. 3L and 3L
18. Minimum Flight Crew:	1 (Pilot)
19. Maximum Passenger Seating Capacity:	1
20. (Reserved)	
21. Baggage / Cargo Compartments	Max. 15 kg aft of the seat backrest bulkhead.
22. Wheels and Tyres	
Main wheel:	G5 06-27 01 and G5 06-27 02
Tyres and tubes:	Goodyear 15x6.00-6 6PR (P/N 156E61-3)
Nose wheel:	G5 00-31 01
Tyre and tube:	Goodyear 15x6.00-6 6PR (P/N 156E61-3)

IV. Operating and Service Instructions

Airplane Flight Manual (AFM)	EVLA 001.00-AS
Airplane Maintenance Manual (AMM) (incl. Airworthiness Limitations)	EVLA 004.01-AS
Illustrated Parts Catalogue:	EVLA 005.01-AS
Maintenance Manual for ROTAX Engine Type 912 Series:	899 372
Propeller Operation Manual V230E:	LV-DZ-05/2001-01

V. Notes

None.

SECTION 2: Changes/Variants

(Reserved)