

Civil Aviation Authority United Kingdom



TYPE-CERTIFICATE DATA SHEET

UK.TC.A.00124

for
Elixir

Type Certificate Holder

Elixir Aircraft
Rue du Jura
17000 La Rochelle
France

Model(s): Elixir
Issue: 1
Date of issue: 03 October 2024

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Section 1 Elixir

I. General

This Type-Certificate Data Sheet (TCDS) is the concise definition of the type-certificated product accepted and or approved by the CAA in the UK for the affected types and models. This TCDS includes:

1. Details of the type design that affect the TCDS that have been approved or accepted by the CAA in the UK since 01 January 2021.
2. Details of the type design that affected the TCDS and were approved or accepted by EASA before 01 January 2021, and were incorporated into EASA TCDS EASA.IM.A.080 at Issue 8 dated 20 August 2019 and are therefore accepted by the UK under Article 15 of Annex 30 of the UK-EU Trade and Cooperation Agreement.

1. Type / Variant / Model

- a) Type: ELIXIR
- b) Variant or Model: Elixir

2. Type Certificate Holder

Elixir Aircraft
Rue du Jura
17000 La Rochelle
France

II. Certification Basis

1. Reference Date for determining the applicable requirements

May 2016

2. Airworthiness Requirements

EASA CS-23, Certification Specifications for
Normal, Utility, Aerobatic and Commuter Category Aeroplanes, Amdt. 5, dated 29 March 2017
EASA CS-ACNS, Initial issue, dated 01 January 2014

3. Special Conditions

SC-ELA.2015-01, i2 – Lithium Battery Installations

4. Exemptions

None

5. Deviations

None

6. Equivalent Safety Findings

None

7. Environmental Protection

See TCDSN.

III. Technical Characteristic and Operating Limitations

1. Type Design Definition

ELIXIR Master Document List LXR-AI-REC-DOC-MASTER DOCUMENT LIST.R02 or later approved revision

2. Description:

The airplane is a side-by-side two-seater. It has a partially elliptical cantilever low wing configuration with flaps and ailerons. The tail has a T configuration. The tricycle landing gear is fixed.

3. Equipment:

The aeroplane is equipped with an airframe parachute.

4. Dimensions:

Wing span	8.48 m
Height	1.80 m
Length	6.06 m
Wing area	7.9 m ²

5. Engine**a. Model:**

ROTAX 912iSc3 Sport

b. Type Certificate:

The ROTAX 912iSc3 Sport is certified by EASA under TCEASA.E.121 TCDS No. E.121 issue 11 dated 11 Oct. 2019.

c. Limitations

Refer to the latest version of TCDS No. E. 121

6. Load factors:

Flaps up n +4 to -2

Flaps down n +2 to 0

7. Propeller**a. 7.1 Model:**

MTV-34-1-A/156-203

b. Type Certificate:

The MTV-34-1-A/156-203 is certified by EASA under TCEASA.P.049 TCDS No. P.049 issue 02 dated of 13 Dec. 2018.

c. Number of blades:

3

d. Diameter:

1.56m

e. Sense of Rotation:

Clockwise, seen from pilot's point of view

8. Fluids**a. Fuel:**

Refer to applicable AFM section 2-Limitations

b. Oil:

Refer to applicable AFM section 2-Limitations

c. Coolant:

Refer to applicable AFM section 2-Limitations

9. Fluid capacities**a. Fuel:**

Total capacity: 104L

Usable capacity: 100L

b. Oil:

Min. sump capacity: 3.05L

Max. sump capacity: 3.5L

c. Coolant:

Capacity: 2.5L

10. Air Speeds (indicated)

Vs0: 85 km/h (46 kts)

Vs: 113 km/h (59 kts)

Vfe: 164 km/h (88 kts)

Va: 224 km/h (121 kts)

Vc: 244 km/h (131 kts)

Vne: 290 km/h (156 kts)

Note : IAS = CAS + 2 km/h on the whole flight envelope and flap settings

11. Flight Envelope:

Max. operating altitude above MSL: 4877m / 16 000ft

12. Approved Operations Capability:

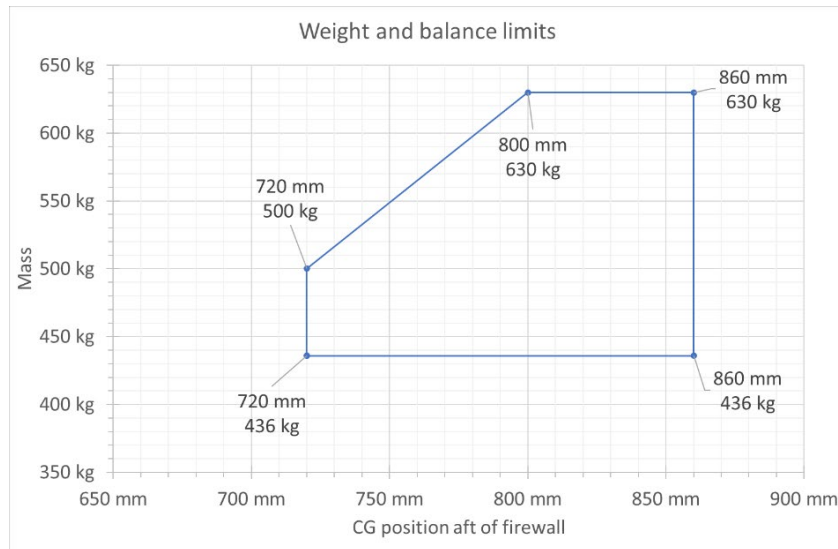
Day-VFR and Night-VFR operations only (refer to AFM for aeroplanes with Night-VFR capability)

13. Maximum Masses:

630 kg

14. Centre of Gravity Range:

See table below.

**15. Datum:**

The datum line is the firewall.

16. Control surface deflections:

Refer to AMM

17. Levelling Means:

Refer to AMM

18. Minimum Flight Crew:

One (1) pilot

19. Maximum Passenger Seating Capacity:

One (1) passenger

20. Baggage/ Cargo Compartments:

At the back of the seats, weight limitation : refer to AFM

21. Wheels and Tyres:

Main wheel size 5.00-5 Nose wheel size 11x4.00-5

22. (Reserved)

IV. Operating and Service Instructions

1. Flight Manual:

Refer to Service information Letter LXR-AI-REC-DOC-SIL-633-004 - LIST OF TECHNICAL DOCUMENTATION

2. Maintenance Manual:

Refer to Service information Letter LXR-AI-REC-DOC-SIL-633-004 - LIST OF TECHNICAL DOCUMENTATION

V. Notes

1. Structure is qualified up to 54°C (129.2°F). Operation of the aircraft with structure temperatures (composite) above 54°C (129.2°F) is not permitted.

Section 2 Administration**I. Acronyms and Abbreviations**

Acronym / Abbreviation	Definition
AFM	Aircraft Flight Manual
AMM	Aircraft Maintenance Manual
CAA	Civil Aviation Authority
CAS	Calibrated Air Speed
CS	Certification Specification
EASA	European Union Aviation Safety Agency
km/h	Kilometres per hour
kts	Knots
L	Litres
m	Metre
m ²	Metres-squared
mm	Milimetre
TC	Type Certificate
TCDS	Type Certificate Data Sheet
TCDSN	Type Certificate Data Sheet for Noise
TCH	Type Certificate Holder
VFR	Visual Flight Rules

II. Type Certificate Holder Record

TCH Record	Period
Elixir Aircraft Rue du Jura 17000 La Rochelle France	Since 20 March 2020

III. Amendment Record

TCDS Issue No.	TCDS Issue Date	Changes	TC Issue and Date
1	03 Oct 2024	Initial	Issue 1 03 Oct 2024

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