

# ECOLIGHT

---

## TYPE CERTIFICATE DATA SHEET MCR-ULC

### Type Certificate Holder:

**DYN'AERO SA**  
19 rue de l'Aviation  
21121 DAROIS  
FRANCE

### Manufacturer:

**Dyn'Aero Tecnologia Aeroespacial Ibérica S.A.**  
Zona Industrial, Lote 55/56  
Edifício Dyn'Aero Ibérica  
Apartado 15  
7400-909 Ponte de Sor  
PORTUGAL

List of effective Pages:

<b>Page</b>	1	2	3	4	5	6
<b>Issue</b>	1	1	1	1	1	1

## **CONTENT**

<b>SECTION 1: GENERAL, Basic MCR-ULC Type Design</b>	<b>3</b>
I. General	3
II. Certification Basis	3
III. Technical Characteristics and Operational Limitations	4
IV. Operating and Service Instructions	6
V. Notes	6
<b>SECTION 2: CHANGES/VARIANTS</b> (Reserved)	<b>6</b>

## SECTION 1: MCR-ULC

### I. General

1. a) Type: MCR-ULC  
b) Variant:
  
2. Airworthiness Category: Ultralight/Ecolight
  
3. Type Certificate Holder: DYN'AERO SA  
19 rue de l'Aviation  
21121 DAROIS  
FRANCE
  
4. Manufacturer : Dyn'Aero Tecnologia Aeroespacial Ibérica S.A.  
Zona Industrial, Lote 55/56  
Edifício Dyn'Aero Ibérica  
Apartado 15  
7400-909 Ponte de Sor  
PORTUGAL
  
5. Certification Application Date:

### II. Certification Basis

1. Reference Date for determining the applicable requirements:
  
2. (Reserved)
  
3. (Reserved)
  
4. Certification Basis: LTF-UL, latest Issue
  
5. Airworthiness Requirements: LTF-UL and Swiss additional requirements for Ecolight aircraft
  
6. Requirements elected to comply: None
  
7. Special Conditions: None
  
8. Exemptions: None
  
9. Equivalent Safety Findings: None



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: 78 liters  
Usable: 77 liters

9.2 Oil: Maximum: 3.0 liters  
Minimum: 2.0 liters

10. Air Speeds:

Design Maneuvering Speed VA	172 km/h IAS
Maximum Flap Extended Speed VFE	
flaps 17° VFE <sub>17</sub>	140 km/h IAS
flaps 30° VFE <sub>30</sub>	130 km/h IAS
Maximum structural cruising speed VNO	210 km/h IAS
Never exceed speed VNE	270 km/h IAS

11. (Reserved)

12. Operational: VFR Day  
Flight into expected or actual icing conditions is prohibited.

13. Maximum Masses:

Take-off	450 kg (472,5 kg with recovery parachute)
Empty Weight	250 kg

14. Centre of Gravity Range: 20% - 40% MAC  
[MAC is 960mm]

15. Datum: The reference datum is 13,5 mm forward the leading edge of the left wing

16. (Reserved)

17. Levelling Means:

*According to doc. MEXNIOO (DYN'AERO)*

Horizontal reference: side of the canopy

Vertical reference: 13,5 mm forward the leading edge of the left wing

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:

280 mm diameter

Nose wheel:

280 mm diameter

## **IV. Operating and Service Instructions**

Airplane Flight Manual (AFM)

NEXNO0901 (DYN'AERO)

Airplane Maintenance Manual (AMM)

MEXNO0302E (DYN'AERO)

Illustrated Parts Catalogue:

PGENO0903 (DYN'AERO)

Maintenance Manual for ROTAX Engine Type 914 Series

899606 (ROTAX)

Propellers Operation Manual

ZHENO0100 (DYN'AERO)

BRS Parachute Maintenance Manual

Latest Revision

## **V. Notes**

Parts and Equipments required as a result of the Swiss validation:

Flaps deployment is limited to 30°

Air speed indicator with specific markings

Fuel indicator with specific markings

Stall device as defined by document "StallStripsEcoL.pdf"

Cover in the luggage compartment for the flap drive system

Cover for the rectifier.

## **SECTION 2: Changes/Variants**

(Reserved)