Type Certificate Holder: AQUILA Aviation International GmbH
Flugplatz, OT Schönhausen, D-14959 Trebbin
Germany

For models: AT01

Issue 2, 08 September 2016

This Data Sheet which is integral part of Type Certificate TL0067 prescribes the conditions and limitations under which the product(s) for which the Type Certificate was granted meet(s) the airworthiness requirements and environmental protection requirements, stated in Certification basis mentioned in this Data Sheet.
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I. General

1. a) Type: AQUILA AT01
c) Model: AT01
b) Variant: ------

2. Airworthiness Category: Very Light Aircraft (VLA)

3. Type Certificate Holder: AQUILA Aviation International GmbH

4. Manufacturer: AQUILA Aviation International GmbH

5. SAAU Certification Application Date: 09 November 2009

6. SAAU Type Certification Date: 03 April 2015

II. Certification Basis

1. Certification Basis: As defined in SAAU CRI G-01, latest issue


3. EASA Special Conditions: SC235.01 “Connection Engine Mount/ Composite Airframe”
   SC235.02 “Winglet”
   Special Condition to CS-VLA for Night-VFR-Operation according to EASA CRI-A01

4. Exemptions: None

5. Deviations: None

6. Equivalent Safety Findings: None

7. Requirements elected to comply: CS-23, Amdt. 2: for glass cockpit installation (Garmin G-500 / ASPEN PFD 1000) as Primary for Day- and Night VFR

III. Technical Characteristics and Operational Limitations

1. Type Design Definition: Drawing list,
   S/N AT01-100: Doc.-no LD-AT01-0030-100P
   S/N AT01-101 until 299: Doc.-no LD-AT01-0030-100

2. Description:
   - Single-Engine, Low-Wing Aircraft
   - 2 Seats side-by-side
   - Dual Controls
   - Normal Tailplane Configuration
   - Composite Design
   - Fixed Tricycle Landing Gear with steerable nose wheel

3. Equipment: For Minimum Equipment List refer to AFM, Section 2 and
   for NVFR-operation refer to AFM-Supplement AVE 23, AVE 28 and/or AVE29, Section 2, latest approved Revision

4. Dimensions:
   Span: 10,3m
   Length: 7,35m
   Height: 2,4m
   Wing Area: 10,5m²

5. Engine:
   No.1 Bombardier-Rotax GmbH 912 S3
   SAAU TCDS No. TD 0060

5.1. Limitations:
   For power plant limits refer to AFM

6. Load Factors:
   +4; -2

7. Propeller:
   No. 1 MT-Propeller MTV-21-A/175-05
   Two blades
   Sense of Rotation: Clockwise in flight direction.
   SAAU TCDS No. TG0022
   Diameter: 1750 mm ± 5mm

8. Fluids:

8.1. Fuel:
   Refer to AFM (FM-AT01-1010-100)

8.2. Oil:
   Refer to AFM (FM-AT01-1010-100)

8.3. Coolant:
   Refer to AFM (FM-AT01-1010-100)

9. Fluid capacities:

9.1. Fuel:
   Total: 120 liters (2 x 60 liters)
   Useable: 109,6 liters (2 x 54,8 liters)
   Min: 2,55 liters
   Max: 3,00 liters

9.2. Oil:
9.3. Coolant System
   Capacity: Min: 2,40 liters
   Max: 2,50 liters

10. Air Speeds:
    \[ V_A = 112 \text{ KIAS} \]
    \[ V_{FE} = 90 \text{ KIAS} \]
    \[ V_{NO} = 130 \text{ KIAS} \]
    \[ V_{NE} = 165 \text{ KIAS} \]

11. Kinds of Operation:
    Day-VFR and Night-VFR

12. Maximum Operating
    Altitude: 14500 ft

13. Maximum Weights:
    MTOW=750 kg

14. Centre of Gravity Range:
    Forward limit: 427 mm (31% MAC)
    Rear limit: 523 mm (40% MAC)

15. Datum:
    At wing root leading edge vertical to fuselage centre line.

16. Control Surface
    Deflections:
    Refer to Maintenance Manual

17. Levelling Means:
    Wedge 800:77 (5.5°) on top of rear fuselage; 800 mm
    forward of horizontal stabilizer

18. Minimum Flight Crew:
    1 (Pilot)

19. Maximum Passenger
    Seating Capacity:
    2 seats (1 pilot, 1 passenger)

20. Baggage/Cargo
    Compartments:
    Aft Baggage Compartment; max. allowable load: 40kg

21. Wheels and Tyres:
    Refer to Maintenance Manual
IV. Operating and Service Instructions

1. Flight Manual: FM-AT01-1010-100
3. Repair Manual: MM-AT01-1020-100
5. Spare Parts Catalogue: PC-AT01-1030-100
6. Table of Dimensions, Limits and Clearances: see Flight Manual
7. Instruments and Aggregates: MZ-AT01-0150-001
V. Notes

Note 1    TCDS is valid for S/N AT01-100 until AT01-299

Note 2    Marketing name: AQUILA A210

Note 3    All parts which are imposed to direct vertical sunlight have to be painted in white colour except of those areas provided for registration signs and warning paint.

Note 4    The operation under Night-VFR-conditions is allowed after accomplishment of the Service Bulletin SB-AT01-010 “Extension of the Kind of Operation to VFR-Night-Operation” except aircrafts where the Service Bulletin SB-AT01-011 “Modifications for Measuring and Photo Flight Operations” has been accomplished or with MC approval 10039259

Deputy Director of Directorate - Head of Aeronautical Products Type Certification Department

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