Issue: 13 Date: 06 November 2025



TYPE-CERTIFICATE DATA SHEET

NO. EASA.A.527

for AQUILA AT01

Type Certificate Holder

AQUILA Aviation International GmbH

OT Schönhagen Flugplatz 14959 Trebbin Germany

For models: AT01

AT01-100 AT01-200 AT01-300

Variants: AT01-100A

AT01-100B AT01-100C AT01-200A AT01-200C AT01-300A



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SECTION A: AT01

A.I. General

Data Sheet No.: EASA.A.527
 a) Type: AQUILA AT01

b) Model: AT01

c) Variant:

3. Airworthiness Category: Very Light Aircraft (VLA)

4. Type Certificate Holder: AQUILA Aviation International GmbH

5. Manufacturer: AQUILA Aviation International GmbH

6. Certification Application Date: 27-Feb-19987. Type Certificate Date 21-Sept-2001

8. This EASA TCDS cancels and replaces the German TCDS No. 1106

A.II. <u>EASA Certification Basis</u>

1. Reference Date for determining the applicable requirements: 27-Feb-1998

2. Airworthiness Requirements: JAR-VLA, incl. Amd. VLA/92/1, dated 1-Jan-1992

3. Special Conditions: SC235.01 "Connection Engine Mount/ Composite Airframe"

SC235.02 "Winglet"

Special Condition to CS-VLA for Night-VFR-Operation according to

CRI-A01

4. Exemptions: none5. Deviations: none6. Equivalent Safety Findings: none



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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

§23.29, §23.303, §23.601, §23.603, §23.611, 23.771, §23.773, §23.777, §23.867, §23.1301, §23.1303, §23.1309, §23.1311, §23.1321, §23.1322, §23.1323, §23.1325, §23.1327, §23.1331, §23.1351, §23.1353, §23.1357, §23.1359, §23.1361, §23.1365, §23.1367, §23.1381, §23.1431, §23.1501, §23.1519, §23.1541,

§23.1557, §23.1581, §23.1583, §23.1585

8. Environmental Standards: ICAO, Annex 16, Vol 1, Chapter X Original LBA, LSL Chapter X dated

1-Jan-1991

9. (Reserved) Additional National

Requirements:

10. (Reserved)

none

A.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

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) or ASI-01 (see note 8), Section 2, latest approved Revision

4. Dimensions: Span: 10,3m

Length: 7,35m Height: 2,4m Wing Area: 10,5m²

5. Engine:

5.1.1 Model: 1 Rotax 912 S3 or 1 Rotax 912iSc3 Sport

5.1.2 Type Certificate: EASA TCDS E.121

5.1.3 Limitations: For power plant limits refer to AFM



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6. Load Factors: +4; -2

7. Propeller:

7.1 Model: 1 MT-Propeller MTV-21-A/175-05

7.2 Type Certificate: EASA TCDS P.101

7.3 Number of Blades: 2 Blades

7.4 Diameter: 1750 mm ± 5mm

7.5 Sense of Rotation: Clockwise in flight direction

8. Fluids:

8.1 Fuel: Refer to AFM (FM-AT01-1010-100 /-107)
 8.2 Oil: Refer to AFM (FM-AT01-1010-100 /-107)
 8.3 Coolant: Refer to AFM (FM-AT01-1010-100 /-107)

9. Fluid Capacities:

9.1 Fuel: Total: 120 liters (2 x 60 liters)

Useable: 109,6 liters (2 x 54,8 liters)

or 97,0 liters (2 x 48,5 liters) (see Note 8)

9.2 Oil: Min: Refer to AFM (FM-AT01-1010-100 /-107)

Max: 3,00 liters

9.3 Coolant System Capacity:

Min: 2,40 liters Max: 2,50 liters

10. Air Speeds: VA = 112 KIAS

VFE = 90 KIAS VNO = 130 KIAS VNE = 165 KIAS



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11. Maximum Operating

Altitude: 14500 ft

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

13. Maximum Weights: MTOM=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

22. (Reserved):

A.IV. Operating and Service Instructions

1. Flight Manual: Aircraft Flight Manual:

FM-AT01-1010-100

FM-AT01-1010-107 (see note 8)

2. Technical Manual: Aircraft Maintenance Manual

MM-AT01-1020-100

MM-AT01-1020-110 (see note 8)

3. Service Bulletins: LSB-AT01-001

4. Service Information: LSI-AT01-001



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A.V. Notes:

- 1. TCDS section A is valid for S/N AT01-100 through AT01-299
- 2. Approved Noise Level in accordance with the EASA Data Sheet for Noise TCDSN EASA.A.527
- 3. Production is only permitted under Production Organisation Approval.
- 4. Marketing name: AQUILA A210
- 5. 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.
- 6. This EASA TCDS cancels and replaces the LBA TCDS No 1106, issue 3 dated June 25, 2003 according to EASA information and policy paper to EC-Reg 1702/2003 Art. 2.
- 7. 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 aircraft where the Service Bulletin SB-AT01-011 "Modifications for Measuring and Photo Flight Operations" has been accomplished or with MC approval 10039259
- 8. A retrofit with Rotax 912iSc3 Sport engine equivalent to the installation defined for model AT01-300A is permitted according to Aquila Service Bulletin SB-AT01-044. Unusable fuel of 5,2l per tank is only applicable if wing tanks acc. DW-AT01-4000-001 Rev. A.14 or higher are installed.



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SECTION B: AT01-100

B.I. General

Data Sheet No.: EASA.A.527
 a) Type: AQUILA AT01
 b) Model: AT01-100

c) Variant: AT01-100A, AT01-100B, AT01-100C

3. Airworthiness Category: Very Light Aircraft (VLA)

4. Type Certificate Holder: AQUILA Aviation International GmbH

5. Manufacturer: AQUILA Aviation International GmbH

6. Certification Application Date: 26-Oct-20127. Type Certificate Date: 31-May-2013

B.II. EASA Certification Basis

1. Reference Date for determining the applicable requirements:

Airworthiness Requirements: JAR-VLA, incl. Amd. VLA/92/1, dated 1-Jan-1992

3. Special Conditions: SC235.01 "Connection Engine Mount/ Composite Airframe"

SC235.02 "Winglet"

Special Condition to CS-VLA for Night-VFR-Operation according to

CRI-A01

4. Exemptions: none5. Deviations: none6. Equivalent Safety Findings: none

7. Requirements elected to comply: Variant AT01-100A

CS-VLA acc. MoC: MC-AT01-00600-100

CS-23, Amdt. 2: for glass cockpit installation (ASPEN PFD 1000)

as Primary for Day- and Night VFR

§23.29, §23.303, §23.601, §23.603, §23.611, 23.771, §23.773, §23.777, §23.867, §23.1301, §23.1303, §23.1309, §23.1311, §23.1321, §23.1322, §23.1323, §23.1325, §23.1327, §23.1331, §23.1351, §23.1353, §23.1357, §23.1359, §23.1361, §23.1365, §23.1367, §23.1381, §23.1431, §23.1501, §23.1519, §23.1541,

§23.1557, §23.1581, §23.1583, §23.1585

Or

CS-VLA acc. MoC: TCP-AT01-01046



AQUILA AT01

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> CS-23, Amdt. 2: for glass cockpit installation (Garmin G3X (uncertified components)) as Primary for Day-VFR and with additional standby instrumentation for Day- and Night-VFR §23.29, §23.303, §23.601, §23.603, 23.611, §23.771, §23.773, §23.777, §23.867, §23.1301, §23.1303, §23.1309, §23.1311, §23.1321, \$23.1322, §23.1323, §23.1325, §23.1327, §23.1331, §23.1337, §23.1351, §23.1353, §23.1357, §23.1359, §23.1361, §23.1365, §23.1367, §23.1381, §23.1431, §23.1501, §23.1519, §23.1541, §23.1543, §23.1549, §23.1553, §23.1557, §23.1581, §23.1583, §23.1585 CS-23, Amdt. 4: for Autopilot installation (restricted Garmin G3X) §23.143, §23.395, §23.1329, §23.1335

Variant AT01-100B

CS-VLA acc. MoC: MC-AT01-00600-100

§23.1557, §23.1581, §23.1583, §23.1585

CS-23, Amdt. 2: for glass cockpit installation (Garmin G500 /G500TXi) as Primary for Day- and Night VFR §23.29, §23.303, §23.601, §23.603, §23.611, 23.771, §23.773, §23.777, §23.867, §23.1301, §23.1303, §23.1309, §23.1311, §23.1321, §23.1322, §23.1323, §23.1325, §23.1327, §23.1331, §23.1351, §23.1353, §23.1357, §23.1359, §23.1361, §23.1365, §23.1367, §23.1381, §23.1431, §23.1501, §23.1519, §23.1541,

CS-23, Amdt. 4: for Autopilot installation (restricted Garmin GFC500) §23.143, §23.395, §23.1329, §23.1335

Variant AT01-100C

CS-VLA acc. MoC: MC-AT01-00635-100 CS-23, Amdt. 2: for glass cockpit installation (Garmin G500 /G500TXi plus MVP-50P) as Primary for Day- and Night VFR §23.29, §23.303, §23.601, §23.603, 23.611, §23.771, §23.773, §23.777, §23.867, §23.1301, §23.1303, §23.1309, §23.1311, §23.1321, \$23.1322, §23.1323, §23.1325, §23.1327, §23.1331, §23.1337, §23.1351, §23.1353, §23.1357, §23.1359, §23.1361, §23.1365, §23.1367, §23.1381, §23.1431, §23.1501, §23.1519, §23.1541, §23.1543, §23.1549, §23.1553, §23.1557, §23.1581, §23.1583, §23.1585

CS-23, Amdt. 4: for Autopilot installation (restricted Garmin GFC500) §23.143, §23.395, §23.1329, §23.1335

- 8. Environmental Standards: ICAO, Annex 16, Vol 1, Chapter X Original LBA, LSL Chapter X dated
- 9. (Reserved) Additional National Requirements:

(Reserved)

1-Jan-1991

none



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B.III. Technical Characteristics and Operational Limitations

1. Type Design Definition: Drawing list,

S/N AT01-100A (B, C)-300 and ff: 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 AS-01 (variant AT01-100A), AS-05 (variant AT01-100B) and AS-06 (variant AT01-100C) or

ASI-01 (see note 6), Section 2, latest approved Revision

4. Dimensions: Span: 10,3m

Length: 7,40m Height: 2,4m Wing Area: 10,5m²

5. Engine:

5.1.1 Model: 1 Rotax 912 S3 or 1 Rotax 912iSc3 Sport

5.1.2 Type Certificate: EASA TCDS E.121

5.1.3 Limitations: For power plant limits refer to AFM

6. Load factors: +4; -2

7. Propeller:

7.1 Model: 1 MT-Propeller MTV-21-A/170-05 or

1 MT-Propeller MTV-21-A/175-05 with Rotax 912iSc3 Sport engine

7.2 Type Certificate: EASA TCDS P.101

7.3 Number of Blades: 2 Blades

7.4 Diameter: 1700 mm ± 5mm or

1750 mm ± 5mm with Rotax 912iSc3 Sport engine

7.5 Sense of Rotation: Clockwise in flight direction

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8. Fluids:

8.1 Fuel: Refer to AFM (FM-AT01-1010-101 / -102 / -103 / -107)

8.2 Oil: Refer to AFM (FM-AT01-1010-101 / -102 / -103 / -107)

8.3 Coolant: Refer to AFM (FM-AT01-1010-101 / -102 / -103 / -107)

9. Fluid Capacities:

9.1 Fuel: Total: 120 liters (2 x 60 liters)

Useable: 109,6 liters (2 x 54,8 liters)

or 97,0 liters (2 x 48,5 liters) (see Note 6)

9.2 Oil: Min: Refer to AFM (FM-AT01-1010-101/-102/-103/-107)

Max: 3,00 liters

9.3 Coolant System Capacity:

Min: 2,40 liters Max: 2,50 liters

10. Air Speeds: VA = 112 KIAS

VFE = 90 KIAS VNO = 130 KIAS VNE = 165 KIAS

11. Maximum Operating

Altitude:

14500 ft

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

13. Maximum Weights: MTOM=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 MM-AT01-1020-110

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



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

Capacity:

20. Baggage/Cargo

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

21. Wheels and Tyres: refer to Maintenance Manual MM-AT01-1020-110

22. (Reserved):

B.IV. Operating and Service Instructions

1. Flight Manual: Aircraft Flight Manual:

FM-AT01-1010-101 (variant AT01-100A) FM-AT01-1010-102 (variant AT01-100B) FM-AT01-1010-103 (variant AT01-100C)

FM-AT01-1010-107 (see note 6)

2. Technical Manual: Aircraft Maintenance Manual

MM-AT01-1020-110

3. Service Bulletins: LSB-AT01-0014. Service Information: LSI-AT01-001

B.V. Notes:

- 1. TCDS section B is valid for S/N AT01-100A (B, -C)-300 and up.
- 2. Approved Noise Level in accordance with the EASA Data Sheet for Noise TCDSN EASA.A.527
- 3. Production is only permitted under Production Organisation Approval.
- 4. 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.
- 5. Marketing name: AQUILA A211
- 6. A retrofit with Rotax 912iSc3 Sport engine equivalent to the installation defined for model AT01-300A is permitted according to Aquila Service Bulletin SB-AT01-044. Unusable fuel of 5,2l per tank is only applicable if wing tanks acc. DW-AT01-4000-001 Rev. A.14 or higher are installed.

Issue: 13 Date: 06 November 2025

SECTION C: AT01-200

C.I. General

Data Sheet No.: EASA.A.527
 a) Type: AQUILA AT01
 b) Model: AT01-200

c) Variant: AT01-200A, AT01-200C

3. Airworthiness Category: Very Light Aircraft (VLA)

4. Type Certificate Holder: AQUILA Aviation International GmbH5. Manufacturer: AQUILA Aviation International GmbH

6. Certification Application Date: 10-Mar-20147. Type Certificate Date: 26-Mar-2020

C.II. EASA Certification Basis

1. Reference Date for determining the applicable requirements:

2. Airworthiness Requirements: JAR-VLA, incl. Amd. VLA/92/1, dated 1-Jan-1992

3. Special Conditions: SC235.01 "Connection Engine Mount/ Composite Airframe"

SC235.02 "Winglet"

Special Condition to CS-VLA for Night-VFR-Operation according to

CRI-A01

Special Condition to CS-VLA for Increase of permissible maximum

take-off weight to 800kg according to CRI-A07

4. Exemptions: none5. Deviations: none

6. Equivalent Safety Findings: ELOS to CS-VLA for Electrical Fuel Pumps according to CRI-E01

7. Requirements elected to comply: Variant AT01-200A

CS-VLA acc. MoC: TCP-AT01-01141

CS-23, Amdt. 2: for glass cockpit installation (Garmin G3X (uncertified components)) as Primary for Day-VFR and with additional standby instrumentation for Day- and Night-VFR §23.29, §23.303, §23.601, §23.603, 23.611, §23.771, §23.773, §23.777, §23.867, §23.1301, §23.1303, §23.1309, §23.1311, §23.1321, \$23.1322, §23.1323, §23.1325, §23.1327, §23.1331, §23.1337, §23.1351, §23.1353, §23.1357, §23.1359, §23.1361, §23.1365, §23.1367, §23.1381, §23.1431, §23.1501, §23.1519, §23.1541, §23.1543, §23.1549, §23.1553, §23.1557, §23.1581,

§23.1583, §23.1585

CS-23, Amdt. 4: for Autopilot installation (restricted Garmin

G3X) §23.143, §23.395, §23.1329, §23.1335



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Variant AT01-200C

CS-VLA acc. MoC: TCP-AT01-00728

CS-23, Amdt. 2: for glass cockpit installation (Garmin G500 /G500TXi plus MVP-50P) as Primary for Day- and Night VFR §23.29, §23.303, §23.601, §23.603, 23.611, §23.771, §23.773, §23.777, §23.867, §23.1301, §23.1303, §23.1309, §23.1311, §23.1321, \$23.1322, §23.1323, §23.1325, §23.1327, §23.1331, §23.1337, §23.1351, §23.1353, §23.1357, §23.1359, §23.1361, §23.1365, §23.1367, §23.1381, §23.1431, §23.1501, §23.1519, §23.1541, §23.1543, §23.1549, §23.1553, §23.1557, §23.1581,

§23.1583, §23.1585

CS-23, Amdt. 4: for Autopilot installation (restricted Garmin

GFC500) §23.143, §23.395, §23.1329, §23.1335

8. Environmental Standards: ICAO, Annex 16, Vol 1, Chapter X Original LBA, LSL Chapter X dated

1-Jan-1991

9. (Reserved) Additional National

Requirements:

10. (Reserved)

none

C.III. Technical Characteristics and Operational Limitations

Type Design Definition: Drawing list,

S/N AT01-200C (A)-367 and ff: 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 AST-01 (variant AT01-200C) or AST-04 (variant AT01-200A) or ASI-01 (see note 7),

Section 2, latest approved Revision

4. Dimensions: Span: 10,3m

Length: 7,40m Height: 2,4m Wing Area: 10,5m²

5. Engine:

5.1.1 Model: 1 Rotax 914 F3 or 1 Rotax 912iSc3 Sport

5.1.2 Type Certificate: EASA TCDS E.122 or E.121

5.1.3 Limitations: For power plant limits refer to AFM



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6. Load factors: +4; -2

7. Propeller:

7.1 Model: 1 MT-Propeller MTV-21-A/175-05

7.2 Type Certificate: EASA TCDS P.101

7.3 Number of Blades: 2 Blades

7.4 Diameter: $1750 \text{ mm} \pm 5 \text{mm}$

7.5 Sense of Rotation: Clockwise in flight direction

8. Fluids:

8.1 Fuel: Refer to AFM (FM-AT01-1010-104/-106/-107)

8.2 Oil: Refer to AFM (FM-AT01-1010-104/-106/-107)

8.3 Coolant: Refer to AFM (FM-AT01-1010-104/-106/-107)

9. Fluid Capacities:

9.1 Fuel: Total: 120 liters (2 x 60 liters)

Useable: 109,6 liters (2 x 54,8 liters)

or 97,0 liters (2 x 48,5 liters) (see Note 7)

9.2 Oil: Min: Refer to AFM (FM-AT01-1010-104/-106/-107)

Max: 3,00 liters

9.3 Coolant System Capacity:

Min: 2,40 liters Max: 2,50 liters

10. Air Speeds: VA = 112 KIAS

VFE = 90 KIAS VNO = 130 KIAS VNE = 165 KIAS

11. Maximum Operating

Altitude:

16400 ft (14500 ft with Rotax 912iSc3 Sport engine)

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

13. Maximum Weights: MTOM=750 kg

MTOM=800 kg

(only applicable with Rotax 914F engine, see Note 5)



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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 MM-AT01-1020-110

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 2 seats (1 pilot, 1 passenger)

Capacity:

20. Baggage/Cargo

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

21. Wheels and Tyres: refer to Maintenance Manual MM-AT01-1020-110

22. (Reserved):

C.IV. Operating and Service Instructions

1. Flight Manual: Aircraft Flight Manual:

FM-AT01-1010-106 (variant AT01-200C) FM-AT01-1010-104 (variant AT01-200A)

FM-AT01-1010-107 (see note 7)

2. Technical Manual: Aircraft Maintenance Manual

MM-AT01-1020-110

3. Service Bulletins: LSB-AT01-0014. Service Information: LSI-AT01-001

C.V. Notes:

- 1. TCDS section C is valid for S/N AT01-200C (A)-367 and up.
- 2. Approved Noise Level in accordance with the EASA Data Sheet for Noise TCDSN EASA.A.527
- 3. Production is only permitted under Production Organisation Approval.
- 4. 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.
- 5. Operation up to 800kg MTOM is only permitted after embodiment of Aquila Service Bulletin SB-AT01-035.
- 6. Marketing name: AQUILA A212
- 7. A retrofit with Rotax 912iSc3 Sport engine equivalent to the installation defined for model AT01-300A is permitted according to Aquila Service Bulletin SB-AT01-044. Unusable fuel of 5,2l per tank is only applicable if wing tanks acc. DW-AT01-4000-001 Rev. A.14 or higher are installed.



Issue: 13 Date: 06 November 2025

SECTION D: AT01-300

D.I. General

Data Sheet No.: EASA.A.527
 a) Type: AQUILA AT01
 Model: AT01-300
 Variant: AT01-300A

3. Airworthiness Category: Very Light Aircraft (VLA)

4. Type Certificate Holder: AQUILA Aviation International GmbH

5. Manufacturer: AQUILA Aviation International GmbH

6. Certification Application Date: 08-Jun-20237. Type Certificate Date: 08-Jul-2024

D.II. EASA Certification Basis

1. Reference Date for determining the applicable requirements:

n/a

2. Airworthiness Requirements: JAR-VLA, incl. Amd. VLA/92/1, dated 1-Jan-1992

3. Special Conditions: SC235.01 "Connection Engine Mount/ Composite Airframe"

SC235.02 "Winglet"

Special Condition to CS-VLA for Night-VFR-Operation according to

CRI-A01

4. Exemptions: none5. Deviations: none

6. Equivalent Safety Findings: ELOS to CS-VLA for Electrical Fuel Pumps according to CRI-E01

7. Requirements elected to comply: Variant AT01-300A

CS-VLA acc. MoC: TCP-AT01-01141

CS-23, Amdt. 2: for glass cockpit installation (Garmin G3X (uncertified components)) as Primary for Day-VFR and with additional standby instrumentation for Day- and Night-VFR §23.29, §23.303, §23.601, §23.603, 23.611, §23.771, §23.773, §23.777, §23.867, §23.1301, §23.1303, §23.1309, §23.1311, §23.1321, \$23.1322, §23.1323, §23.1325, §23.1327, §23.1331, §23.1337, §23.1351, §23.1353, §23.1357, §23.1359, §23.1361, §23.1365, §23.1367, §23.1381, §23.1431, §23.1501, §23.1519, §23.1541, §23.1543, §23.1549, §23.1553, §23.1557, §23.1581,

§23.1583, §23.1585

CS-23, Amdt. 4: for Autopilot installation (restricted Garmin

G3X) §23.143, §23.395, §23.1329, §23.1335



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8. Environmental Standards: ICAO, Annex 16, Vol 1, Chapter X Original LBA, LSL Chapter X dated

1-Jan-1991

9. (Reserved) Additional National

Requirements:

none

10. (Reserved)

D.III. Technical Characteristics and Operational Limitations

1. Type Design Definition: Drawing list,

S/N AT01-300A -404 and ff: 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 ASI-01 (variant AT01-

300A), Section 2, latest approved Revision

4. Dimensions: Span: 10,3m

Length: 7,40m Height: 2,4m Wing Area: 10,5m²

5. Engine:

5.1.1 Model: 1 Rotax 912 iSc3 Sport

5.1.2 Type Certificate: EASA TCDS E.121

5.1.3 Limitations: For power plant limits refer to AFM

6. Load factors: +4; -2

7. Propeller:

7.1 Model: 1 MT-Propeller MTV-21-A/175-05

7.2 Type Certificate: EASA TCDS P.101



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7.3 Number of Blades: 2 Blades

7.4 Diameter: $1750 \text{ mm} \pm 5 \text{mm}$

7.5 Sense of Rotation: Clockwise in flight direction

8. Fluids:

8.1 Fuel: Refer to AFM (FM-AT01-1010-107)

8.2 Oil: Refer to AFM (FM-AT01-1010-107)

8.3 Coolant: Refer to AFM (FM-AT01-1010-107)

9. Fluid Capacities:

9.1 Fuel: Total: 120 liters (2 x 60 liters)

Useable: 97,0 liters (2 x 48,5 liters)

or 109,8 liters (2 x 54,8 liters) (see Note 5)

9.2 Oil: Min: 2,50 liters

Max: 3,00 liters

9.3 Coolant System Capacity:

Min: 2,40 liters Max: 2,50 liters

10. Air Speeds: VA = 112 KIAS

VFE = 90 KIAS VNO = 130 KIAS VNE = 165 KIAS

11. Maximum Operating

Altitude:

14500 ft

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

13. Maximum Weights: MTOM=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 MM-AT01-1020-110



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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 2 seats (1 pilot, 1 passenger)

Capacity:

20. Baggage/Cargo

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

21. Wheels and Tyres: refer to Maintenance Manual MM-AT01-1020-110

22. (Reserved):

D.IV. Operating and Service Instructions

Flight Manual: Aircraft Flight Manual:

FM-AT01-1010-107 (variant AT01-300A)

2. Technical Manual: Aircraft Maintenance Manual

MM-AT01-1020-110

3. Service Bulletins: LSB-AT01-0014. Service Information: LSI-AT01-001

D.V. Notes:

- 1. TCDS section D is valid for S/N AT01-300A -404 and up.
- 2. Approved Noise Level in accordance with the EASA Data Sheet for Noise TCDSN EASA.A.527
- 3. Production is only permitted under Production Organisation Approval.
- 4. 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.
- 5. Unusable fuel of 5,2l per tank is applicable if wing tanks acc. DW-AT01-4000-001 Rev. A.14 or higher are installed. (ex works S/N AT01-300A-409 and up)
- 6. Marketing name: AQUILA A211i

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ADMINISTRATIVE SECTION

I. Acronyms & Abbreviations

none

II. Type Certificate Holder Record

Date	Type Certificate Holder
21 Sep 2001	AQUILA Aviation Technische Entwicklungen GmbH Flugplatz Schönhagen
	14959 Schönhagen
	Germany
19 Nov 2008	AQUILA Aviation by Excellence AG
	Flugplatz Schönhagen
	14959 Schönhagen
	Germany
23 Dec 2011	Aquila Aviation by Excellence GmbH
	Flugplatz
	14959 Trebbin OT Schönhagen
	Germany
29 May 2013	AQUILA Aviation GmbH
	OT Schönhagen
	Flugplatz
	14959 Trebbin
	Germany
02 May 2016	AQUILA Aviation International GmbH
	OT Schönhagen
	Flugplatz
	14959 Trebbin
	Germany

AQUILA AT01

Date: 06 November 2025

TCDS No.: EASA.A.527 Issue: 13

III. Change Record

Issue	Date	Changes	TC Issue No. & Date
Issue 01	19 Nov 2008	Initial Issue, Transfer of LBA TC 1106 from AQUILA Technische	Issue 01
		Entwicklungen GmbH to AQUILA Aviation by Excellence AG	19 Nov 2008
Issue 02	25 Mar 2010	Revision of the TCDS after approval of Major Change AT01-00219 "DayVFR/Night-VFR operation"	n/a
Issue 03	20 April 2012	Change of corporate from "AQUILA Aviation by Excellence AG" to "Aquila Aviation by Excellence GmbH" and MC approval 10039259	Issue 02 20 Apr 2012
Issue 04	29 May 2013	Implementation of section B: model AT01-100 and variants AT01-100A, AT01-100B and AT01-100C, editorial corrections of section A (model AT01), Change of corporate from "Aquila Aviation by Excellence GmbH" to "AQUILA Aviation GmbH"	Issue 03 29 May 2013
Issue 05	02 May 2016	Transfer of EASA TC A.527 from AQUILA Aviation GmbH to AQUILA Aviation International GmbH	Issue 04 02 May 2016
Issue 06	26 Mar 2020	Implementation of section C: model AT01-200 and variant AT01-200C	Issue 05 5 Mar 2020
Issue 07	04 Aug 2020	AT01-100 Variant A: Glass cockpit PFD / MFD / EIS (noncertified components) installation for Day-VFR and with additional standby instrumentation for Day- and Night-VFR	n/a
Issue 08	27 May 2021	AT01-100 Variant B&C and AT01-200 Variant C: (restricted) Autopilot Garmin GFC500	n/a
Issue 09	04 Jan 2022	AT01-200: Increase of MTOM to 800kg	n/a
Issue 10	05 Jan 2022	Editorial changes; Correction of C.III.13 and C.V.5	n/a
Issue 11	17 May 2023	New variant AT01-200A and for variants AT01-100A and AT01-200A (restricted) Autopilot Garmin G3X	n/a
Issue 12	08 Jul 2024	Implementation of section D: model AT01-300 and variant AT01-300A w/ (restricted) Autopilot Garmin G3X	Issue 06 08 Jul 2024
Issue 13	06 Nov 2025	Model AT01-300: Change of unusable fuel to 5,2l per tank; Retrofit of Rotax 912iSc3 Sport engine acc. SB-AT01-044 for models AT01, AT01-100 and AT01-200	n/a

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