TYPE-CERTIFICATE

DATA SHEET

NO. EASA.A.573

for

Virus SW 121

Type Certificate Holder

Pipistrel d.o.o. Ajdovščina
Goriška cesta 50A
5270 Ajdovščina
Slovenia, Europe

For models: Virus SW 121
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SECTION A: MODEL A DESIGNATION

A.I. General

1. Type/ Model/ Variant
1.1 Type: Virus SW 121
1.2 Model: Virus SW 121

2. Airworthiness Category: Normal

3. Manufacturer: Pipistrel d.o.o. Ajdovščina
Goriška cesta 50a
5270 Ajdovščina
SLOVENIA

4. EASA Type Certification Application Date: 16.07.2010
5. EASA Type Certification Date: 18.04.2016

A.II. EASA Certification Basis

1. Reference Date for determining the applicable requirements: 29.07.2013.
2. Airworthiness Requirements: Certification Specifications and Acceptable Means of Compliance for Light Sport Aeroplanes CS-LSA, Amendment 1 from 29 July 2013. For detailed information see CRI-A01

3. Special Conditions:
   SC-ELA.2015-01 (CRI F-102), Noise Requirements (CRI N-01)

4. Exemptions: none

5. (Reserved) Deviations: none

6. Equivalent Safety Findings: none

A.III. Technical Characteristics and Operational Limitations

1. Type Design Definition: Master document list No. MDL-121-01-00-001 revision A00

2. Description: Single engine, two-seat, high wing cantilever composite construction aircraft with T-tail empennage configuration and fixed tricycle landing gear.

3. Equipment: Minimum equipment see Pilot Operating Handbook POH-121-00-40-001, Section 6.4

4. Dimensions
   - Length: 6,45 m 21,15 ft
   - Span: 10,70 m 35,6 ft
   - Height: 2,06 m 6,75 ft
   - Wing Area: 9,51 m² 102,4 ft²

5. Engine
   - 5.1 Model: Rotax 912 S3
   - 5.2 Type Certificate: EASA.E.121
   - 5.3 Limitations: Maximum Power Rating: 73.5 kW / 5800 RPM max 5 min
     Maximum Continuous Power: 69 kW / 5500 RPM
   - 5.4 Muffler model: Akrapovic iS, drawing number 121-78-00-000

6. Load factors: +4G/-2G

7. Propeller
   - 7.1 Model: MTV-33-1-A/170-200
   - 7.2 Type Certificate: EASA.P.048
   - 7.3 Number of blades: 2
   - 7.4 Diameter: 1700 mm
   - 7.5 Rotation direction: clockwise

8. Fluids
   - 8.1 Fuel
     Refer to Pilot Operating Handbook POH-121-00-40-001, Section 2.7
   - 8.2 Oil
     Refer to Pilot Operating Handbook POH-121-00-40-001, Section 2.8
   - 8.3 Coolant
     Refer to Pilot Operating Handbook POH-121-00-40-001, Section 2.8

9. Fluid capacities
   - 9.1 Fuel
     Total: 100 liters
     Usable: 99 liters
   - 9.2 Oil
     Maximum oil capacity: 3.5 liters
Minimum oil required: marked on dipstick

9.3 Coolant system
2.3 liters (approximately)

10. Air Speeds
- $V_{NE}$: 163 KTAS (see note 1)
- $V_{NO}$: 120 KIAS (see note 2)
- $V_A$: 100 KIAS
- $V_{FE}$: 81 KIAS
- $V_{AE}$: 100 KIAS

11. Flight Envelope
Maximum operating altitude 18,000 ft MSL

12. Approved Operations
VFR day operations only

13. Maximum Masses
- Maximum takeoff - 600 kg / 1323 lbs
- Maximum landing - 600 kg / 1323 lbs
- Maximum zero fuel - 555 kg / 1221 lbs

14. Centre of Gravity Range
- Forward CG limit – 25% MAC / 267 mm
- Aft CG limit – 35% MAC / 357 mm

15. Reference datum
The wing’s leading edge at the root of the wing

16. Control surface deflections
Refer to AMM

17. Levelling Means
Refer to section 6.2 of the POH

18. Minimum Flight Crew
One (1) pilot

19. Maximum Passenger
One (1) passenger

20. Baggage/ Cargo
Location – port side, aft of the door

21. Wheels and Tyres
- Main wheel – 4.00” x 6”, Tyre PN: 5050010
- Nose wheel – 4.00” x 4”, Tyre PN: 5050007

22. Lifetime limitations
Refer to MM
A.IV. **Operating and Service Instructions**

1. Flight Manual  
   POH-121-00-40-001_A02 or later approved issue

   AMM-121-00-60-001_A00 or later approved issue

   Refer to AMM

   Refer to POH

5. Illustrated Parts Catalogue  
   IPC-121-00-50-001_A00 or later approved issue

A.V. **Notes**

Note 1: VNE is reduced from 163 KIAS at sea level by 2.2 KIAS for every 1000 ft.

Note 2: VNO decreases by 0.5 KIAS for every 1000 ft above FL100.
SECTION ADMINISTRATIVE

I. Acronyms & Abbreviations

AMM Aircraft maintenance manual
CS-LSA Certification specification for light sport aeroplanes
EASA European aviation safety agency
IPC Illustrated parts catalogue
KIAS Indicated airspeed in knots
KTAS True airspeed in knots
MAC Mean aerodynamic chord
MSL Mean sea level
MDL Master document list
POH Pilot’s operating handbook
RPM Revolutions per minute
VFR Visual flight rules

II. Type Certificate Holder Record

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5270 Ajdovščina
Slovenia, Europe

III. Change Record

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