TYPE-CERTIFICATE
DATA SHEET

NO. EASA.A.573

for
Virus SW 121

Type Certificate Holder
Pipistrel Vertical Solutions d.o.o.
Vipavska cesta 2,
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: 18.4.2016

A.II. EASA Certification Basis

1. Reference Date for determining the applicable requirements: 29.07.2013

3. Special Conditions: SC-ELA.2015-01 (CRI F-102), Noise Requirements (CRI N-01) SC-OLSA-div-01 (CRI O-18) (see note 3)

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 or later approved revision

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
    $V_{EA}$: 81 KIAS

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

12. Approved Operations
    VFR day operations; Night VFR operations (see note 3)

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 Compartment
    Location – port side, aft of the door
    Maximum load – 25 kg / 55 lbs
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 AMM

A.IV. Operating and Service Instructions

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

   AMM-121-01-00-001_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.
Note 3: When Night VFR kit PN 1159663 or 1159679 or 1159680 is installed.
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

Pipistrel Vertical Solutions d.o.o.
Vipavska cesta 2,
5270 Ajdovščina
Slovenia, Europe

III. Change Record

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<thead>
<tr>
<th>Issue</th>
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<th>TC Issue No. &amp; Date</th>
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<tr>
<td>Issue 01</td>
<td>18/04/2016</td>
<td>Initial Issue</td>
<td>18/04/2016</td>
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<tr>
<td>Issue 02</td>
<td>22/09/2017</td>
<td>Update for major change Night VFR operations</td>
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<tr>
<td>Issue 03</td>
<td>12/03/2018</td>
<td>Corrected in section A.IV the reference to the Maintenance Manual</td>
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<tr>
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<td>15/10/2018</td>
<td>Change of Type Certification Holder, Removed reference to CRI A-01 from section A.II (2)</td>
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