

## TYPE CERTIFICATE

### EASA.A.573

This Type Certificate is issued by EASA, acting in accordance with Regulation (EC) No. 216/2008 on behalf of the European Community, its Member States and of the European third countries that participate in the activities of EASA under Article 66 of that Regulation and in accordance with Commission Regulation (EU) No. 748/2012 to

### PIPISTREL D.O.O. AJDOVSCINA

GORISKA CESTA 50A  
5270 AJDOVSCINA  
SLOVENIA

and certifies that the product type design listed below complies with the applicable Type Certification Basis and environmental protection requirements when operated within the conditions and limitations specified on the associated:

Type Certificate Data Sheet Number: EASA.A.573

#### Type Design - Model:

Virus SW 121 - Virus SW 121

#### Date of Issue:

18 April 2016

For the European Aviation Safety Agency

Date of Issue: 18 April 2016



**Yves MORIER**  
Head of General Aviation and  
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10006366  
TYPE CERTIFICATE - 10057809 - PIPISTREL D.O.O. AJDOVSCINA - 305211





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# 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  
7. Environmental Protection: CS-36, Amendment 3.





### **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 m <sup>2</sup>	102,4 ft <sup>2</sup>
  
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 <sub>NE</sub> : 163 KTAS (see note 1) V <sub>NO</sub> : 120 KIAS (see note 2) V <sub>A</sub> : 100 KIAS V <sub>FE</sub> : 81 KIAS V <sub>AE</sub> : 100 KIAS
11. Flight Envelope	Maximum operating altitude 18,000 ft MSL
12. Approved Operations Capability	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 Seating Capacity	One (1) passenger
20. Baggage/ Cargo Compartments	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 MM





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

- |                                |   |
|--------------------------------|---|
| 1. Flight Manual               | POH-121-00-40-001_A02 or later approved issue |
| 2. Maintenance Manual          | AMM-121-00-60-001_A00 or later approved issue |
| 3. Structural Repair Manual    | Refer to AMM                                  |
| 4. Weight and Balance Manual   | 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**

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

**III. Change Record**

Issue	Date	Changes	TC Issue No. & Date
Issue 01	18/04/2016	Initial Issue	18/04/2016

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## TYPE-CERTIFICATE DATA SHEET FOR NOISE

**No. EASA.A.573**

**for**

**Virus SW 121**

**Type Certificate Holder:**

**Pipistrel**

Goriška cesta 50A

5270 Ajdovščina

Slovenia, Europe

For models: Virus SW 121



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Type Certificate Holder<sup>1</sup>      **Pipistrel**      Aircraft Type Designation<sup>1</sup>      **Virus SW 121**

Engine Manufacturer<sup>1</sup>      **BRP - Rotax GmbH & Co.KG**      Engine Type Designation<sup>1</sup>      **Rotax 912 S3**

Noise Certification Basis      **ICAO Annex 16, Volume I**      Edition / Amendment      **6 Edition / Amendment 0**      Chapter<sup>1</sup>      **10 (10.4b)**

EASA Record No.	Propeller Manufacturer <sup>1</sup>	Propeller Type Designation <sup>1</sup>	Additional modifications essential to meet the requirements or needed to attain the certificated noise levels	Maximum Take-off mass <sup>1</sup> (kg)	Take-off dB(A)		See Note
					Level <sup>1</sup>	Limit	
C12624	<b>MT-Propeller Entwicklung GmbH</b>	<b>MTV-33-1-A/170-200</b>	<b>Silencer : Akrapovic Akrapovic iS iaw drawing number 121-78-00-000</b>	<b>600</b>	<b>70.0</b>	<b>70.8</b>	-

<sup>1</sup> See Note 1.

**TCDSN EASA.A.573 Notes**

1. Items so marked shall be included on EASA Form 45.



### **Change Record**

<b>Issue</b>	<b>Date</b>	<b>Changes</b>
Issue 1	18 April 2016	Initial issue

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