

TYPE-CERTIFICATE

DATA SHEET

NO. EASA.A.573

For Type

Virus SW 121

Type Certificate Holder

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

For models:

- A) Virus SW 121
- B) Virus SW 128 (Commercial Designation: Velis Electro)
- C) Virus SW 121C (Commercial Designation: Velis Club)
- D) Virus SW 121A (Commercial Designation: Explorer)

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SECTION A: MODEL A DESIGNATION

A.I. <u>General</u>

- 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. 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

 Reference Date for determining the applicable requirements: Airworthiness Requirements: 	29.07.2013 Certification Specifications and Acceptable Means of Compliance for Light Sport Aeroplanes CS-LSA, Amendment 1 from 29 July 2013.
3. Special Conditions:	SC-ELA.2015-01 (CRI F-101), 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
7. Environmental Protection:	see TCDSN EASA.A.573.



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A.III. <u>Technical Characteristics and Operational Limitations</u>

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	6.40 m 20.99 ft		
Span	10.70 m 35.10 ft		
Height	1.69 m 6.23 ft		
Wing Area	9.51 m ² 102.4 ft ²		
5. Engine			
5.1. Model:	Rotax 912 S3-01		
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		
9 Eluida			
8. Fluids			
8.1 Fuel			
Refer to Pilot Operating Handbook POH-121-00-40-001, Section 2.8 8.2 Oil			
Refer to Pilot Operating	Refer to Pilot Operating Handbook POH-121-00-40-001, Section 2.9		
8.3 Coolant			
Refer to Pilot Operating Handbook POH-121-00-40-001, Section 2.9			
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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 Capability	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 / 356 mm	
15. Reference datum	The wing's leading edge at the root of the wing	
16. Control surface deflections	Refer to AMM-121-01-00-001_A00 or later approved issue	
17. Levelling Means	Refer to section 6.2 of the POH-121-00-40-001_A02 or later approved issue	
18. Minimum Flight Crew	One (1) pilot	
19. Maximum Passenger Seating Capacity	One (1) passenger	
20. Baggage/ Cargo	Location – port side, aft of the door	
Compartments	Maximum load – 25 kg / 55 lbs	



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21. Wheels and Tyres	Main wheel – 4.00" x 6"
	Nose wheel – 4.00" x 4" For approved wheel and tyre types refer to the
	IPC-121-00-50-001_A00 or later approved issue
22. Lifetime limitations	Refer to AMM-121-01-00-001_A00 or later approved issue

A.IV. Operating and Service Instructions

1. Aircraft Flight Manual	POH-121-00-40-001_A02 or later approved issue
2. Aircraft Maintenance Manual	AMM-121-01-00-001_A00 or later approved issue
3. Structural Repair Manual	Refer to AMM-121-01-00-001_A00 or later approved issue
4. Weight and Balance Manual	Refer to POH-121-00-40-001_A02 or later approved issue
5. Illustrated Parts Catalogue	IPC-121-00-50-001_A00 or later approved issue

A.V. <u>Notes</u>

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.



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SECTION B: MODEL B DESIGNATION

B.I. <u>General</u>

- 1. Type/ Model/ Variant
 - 1.1 Type: Virus SW 121
 - 1.2 Model: Virus SW 128 (Commercial Designation: Velis Electro)
- 2. Airworthiness Category: Normal
- 3. Manufacturer:

Pipistrel d.o.o. Goriška cesta 50a 5270 Ajdovščina SLOVENIA

- 4. EASA Type Certification Application Date: 24.10.2017
- 5. EASA Type Certification Date: 10.06.2020

B.II. EASA Certification Basis

1. Reference Date for determining the applicable requirements: 24th October 2017

2. Airworthiness Requirements (note 1)	Certification Specifications and Acceptable Means of Compliance for Light Sport Aeroplanes CS-LSA, Amendment 1 from 29 July 2013; Certification Specifications and Acceptable Means of Compliance for Airborne Communications, Navigation and Surveillance CS ACNS issue 2 dated 26th April 2019 (subparts A, B, D)
3. Special Conditions:	SC-LSA-F2480-01 - LSA Propulsion Lithium Batteries; SC-LSA-15-01 - Electric Powerplant Installation for CS LSA aeroplanes; SC-ELA.2015-01 - Lithium battery installations;
4. Exemptions:	none
5. (Reserved) Deviations:	none
6. Equivalent Safety Findings:	none
7. Environmental Protection:	see TCDSN EASA.A.573.



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B.III. <u>Technical Characteristics and Operational Limitations</u>

1. Type Design Definition:	Master Drawing List No. DWG-128-02-40-001 latest approved revision
2. Description:	Electric engine, two-seat, high wing cantilever composite construction aircraft with T-tail empennage configuration, fixed tricycle landing gear and three-bladed composite fixed pitch propeller.
3. Equipment:	For equipment list refer to POH-128-00-40-001 Pilot's Operating Handbook, Section 2
4. Dimensions	
Length	6.47 m 21.22 ft
Span	10.71 m 35.13 ft
Height	1.90 m 6.82 ft
Wing Area	9.51 m ² 102.4 ft ²
5. Load factors:	+4G/-2G
6. Engine	
6.1. Type/Model:	Pipistrel electric engine E-811 / 268MVLC
6.2 Type Certificate:	EASA.E.234
6.3 Limitations:	Maximum Take-off Power MTOP: 57.6 kW / 2500 RPM max 90 s
	Maximum Continuous Power: 49.2 kW / 2350 RPM
7. Propeller (note 2)	
7.1 Type/Model:	Pipistrel P-812 / 164-F3A
7.2 Number of blades:	3
7.4 Diameter:	1640 mm
7.5 Rotation direction:	clockwise
7.6 Pitch:	18° @615mm from axis
7.7 Weight:	4,88 kg
7.8 Control system:	N/A (fixed pitch)
7.9 Max speed:	2500 RPM
7.10 Max driving power:	57.6 kW
7.11 Max driving torque:	220 Nm
7.13 Designation system:	Type : P-812; Diameter in cm: 164; Pitch : F: fixed, G: ground adjustable, V: variable, C: Constant speed; Number of blades: 3; Blade type : A.



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8. Energy Storage System (ESS)

Two (2) propulsion Lithium batteries connected in parallel.

1.) Type: Pipistrel PB345V124E-L

Rated capacity at 23°C: 11.0 kWh (each)

Nominal voltage: 345 VDC

Cooling system: Liquid

Battery management system (BMS): Integral

2.) Type: Pipistrel PB345V119E-L
Rated capacity at 23°C: 10.0 kWh (each)
Nominal voltage: 345 VDC
Cooling system: Liquid
Battery management system (BMS): Integral

9. Fluids

Capability

9.1 Coolant:	Refer to POH-128-00-40-001 Pilot's Operating Handbook, Section 2
J.1 COOlant.	

10.1 Coolant system	 for engine cooling system: 0.9 liters (approximately)
	 for battery cooling system: 5.4 liters (approximately)

11. Air Speeds	V _{NE} : 108 KIAS
	V _{NO} : 98 KIAS
	V _A : 100 KIAS
	V _{FE} : 81 KIAS

- 12. Flight Envelope Maximum operating altitude 12.000 ft MSL
- 13. Approved Operations VFR day operations
- 14. Maximum Masses Maximum takeoff 600 kg / 1323 lbs Maximum landing - 600 kg / 1323 lbs
- 15. Centre of Gravity RangeForward CG limit 25.2% MAC / 269 mmAft CG limit 32.6% MAC / 336 mm
- 16. Reference datum The wing's leading edge at the root of the wing



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Issue: 11		
17. Control surface deflections	Refer to AMM-128-00-60-001 Aircraft Mai latest approved issue	ntenance Manual
18. Levelling Means	Refer to section 6.2 of the POH-128-00-40 Handbook latest approved issue	-001 Pilot's Operating
19. Minimum Flight Crew	One (1) pilot	
20. Maximum Passenger Seating Capacity	One (1) passenger	
21. Wheels and Tyres	Main wheel – 4.00" x 6" Nose wheel – 4.00" x 4" For approved wheel and tyre types refer to 001 Illustrated Part Catalogue latest appro	
22. Lifetime limitations	for the airframe: Refer to section 4 of the A Aircraft Maintenance Manual; for the propeller: Refer to section 4 of the P Propeller Instruction Manual;	
B.IV.	Operating and Service Instructions	
1. Aircraft Flight Manual	POH-128-00-40-001 Pilot's Operating Hand latest approved issue	dbook
2. Aircraft Maintenance Manual	AMM-128-00-60-001 Aircraft Maintenance latest approved issue	e Manual
3. Structural Repair Manual	Refer to AMM-128-00-60-001 Aircraft Mai	ntenance Manual
4. Weight and Balance Manual	Refer to POH-128-00-40-001 Pilot's Operat	ting Handbook
5. Propeller Instructions Manual	Refer to PIM-812-61-00-001 Propeller Inst	ruction Manual
5. Illustrated Parts Catalogue	IPC-128-00-50-001 Illustrated Part Catalog	ue latest approved issue



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B.V. <u>Notes</u>

- Note 1: Requirements 4, 5, 6.1, 6.2, 6.4, 6.7, 6.10, 6.11, 7.1, 7.3, 7.4 of ASTM F2840-11, as far as the engine and its parts are concerned, are covered through the corresponding certification basis in the engine TCDS EASA.E.234.
- Note 2: The propeller is certified as part of the aircraft and therefore is only certified for installation on SW128. For propeller Operating and Service Instructions see: PIM-812-61-00-001 Propeller Instruction Manual



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SECTION C: MODEL C DESIGNATION

C.I. <u>General</u>

- 1. Type/ Model/ Variant
 - 1.1 Type: Virus SW 121
 - 1.2 Model: Virus SW 121C (Commercial Designation: Velis Club)

2. Airworthiness Category: Normal

3. Manufacturer:

Pipistrel d.o.o. Goriška cesta 50a 5270 Ajdovščina SLOVENIA

4. EASA Type Certification Application Date:	17.12.2020
5. EASA Type Certification Date:	25.01.2021

C.II. EASA Certification Basis

 Reference Date for determining the applicable requirements: Airworthiness Requirements: 	29.07.2013 Certification Specifications and Acceptable Means of Compliance for Light Sport Aeroplanes CS-LSA, Amendment 1 from 29 July 2013.
3. Special Condition:	SC-ELA.2015-01 (CRI F-101)
4. Exemptions:	none
5. (Reserved) Deviations:	none
6. Equivalent Safety Findings:	none
7. Environmental Protection:	see TCDSN EASA.A.573.



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C.III. <u>Technical Characteristics and Operational Limitations</u>

1. Тур	e Design Definition:	Master document list No. MDL-121-01-00-001 revision B01 or later approved revision	
2. Des	cription:	Single engine, two-seat, high wing cantilever composite construction aircraft with T-tail empennage configuration and fixed tricycle landing gear.	
3. Equ	ipment:	Minimum equipment see Pilot Operating Handbook POH-121C- 00-40-100, Section 2.15.1	
4. Dim	ensions		
1. 0111	Length	6.40 m	20.99 ft
	Span	10.70 m	35.10 ft
	Height	1.90 m	6.23 ft
	Wing Area	9.51 m²	102.4 ft ²
5. Eng	ine		
	5.1. Model:	Rotax 912 S3	3-01
	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		, drawing number 121-78-00-000
6. Loa	6. Load factors: +4G/-2G		
7. Pro	peller		
	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. Flui	ds		
	8.1 Fuel		
	Refer to Pilot Operating Handbook POH-121C-00-40-100, Section 2.8		
	8.2 Oil		
	Refer to Pilot Operating Handbook POH-121C-00-40-100, Section 2.9		
	8.3 Coolant		
	Refer to Pilot Operating Handbook POH-121C-00-40-100, Section 2.9		121C-00-40-100, Section 2.9



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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 Capability	VFR day operations
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 / 356 mm
15. Reference datum	The wing's leading edge at the root of the wing
16. Control surface deflections	Refer to SAMM-121C-00-60-100_A00 or later approved issue
17. Levelling Means	Refer to section 6.2 of the POH-121C-00-40-100_A00 or later approved issue
18. Minimum Flight Crew	One (1) pilot
19. Maximum Passenger Seating Capacity	One (1) passenger
20. Baggage/ Cargo	Location – port side, aft of the door
Compartments	Maximum load – 25 kg / 55 lbs (see note 3)



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21. Wheels and Tyres	Main wheel – 4.00" x 6"
	Nose wheel – 4.00" x 4"
	For approved wheel and tyre types refer to the
	IPC-121-00-50-001 revision D00 or later approved issue

22. Lifetime limitations Refer to AMM-121-01-00-001_B00 or later approved issue and SAMM-121C-00-60-100_A00 or later approved issue

C.IV. Operating and Service Instructions

1. Aircraft Flight Manual	POH-121C-00-40-100_A00 or later approved issue
2. Aircraft Maintenance Manual	AMM-121-01-00-001_B00 and SAMM-121C-00-60-100_A00 or later approved issues
3. Structural Repair Manual	AMM-121-01-00-001_B00 and SAMM-121C-00-60-100_A00 or later approved issues
4. Weight and Balance Manual	Refer to POH-121C-00-40-100_A00 or later approved issue
5. Illustrated Parts Catalogue	IPC-121-00-50-001_C00 or later approved issue

C.V. <u>Notes</u>

- 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 baggage compartment (optional equipment) is installed.



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SECTION D: MODEL D DESIGNATION

D.I. <u>General</u>

- 1. Type/ Model/ Variant
 - 1.1 Type: Virus SW 121
 - 1.2 Model Virus SW 121A (Commercial Designation: Explorer)

2. Airworthiness Category: Normal

3. Manufacturer:

Pipistrel d.o.o. Goriška cesta 50a 5270 Ajdovščina SLOVENIA

4. EASA Type Certification Application Date:	28.01.2021
5. EASA Type Certification Date:	17.12.2021

D.II. EASA Certification Basis

 Reference Date for determining the applicable requirements: Airworthiness Requirements: 	29.07.2013 Certification Specifications and Acceptable Means of Compliance for Light Sport Aeroplanes CS-LSA, Amendment 1 from 29 July 2013.
3. Special Conditions:	SC-ELA.2015-01 (CRI F-101), 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
7. Environmental Protection:	see TCDSN EASA.A.573.



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D.III. <u>Technical Characteristics and Operational Limitations</u>

1. Тур	e Design Definition:	Master document list No. MDL-121-01-00-001 revision C03 or later approved revision	
2. Des	cription:	Single engine, two-seat, high wing cantilever composite construction aircraft with T-tail empennage configuration and fixed tricycle landing gear.	
3. Equ	ipment:	Minimum equipment see Pilot Operating Handbook POH-121A- 00-40-050_B00, Section 2.15.1	
4. Dim	nensions	_	
	Length	6.42 m	21.06 ft
	Span	10.70 m	35.10 ft
	Height	1.90 m	6.23 ft
	Wing Area	9.51 m²	102.4 ft ²
5. Eng	ine		
	5.1. Model:	Rotax 912 S3	3-01
	5.2 Type Certificate:	EASA.E.121	
	5.3 Limitations:	Maximum Po	ower Rating: 73.5 kW / 5800 RPM max 5 min
			ontinuous Power: 69 kW / 5500 RPM
	5.4. Muffler model		, drawing number 121-78-00-000
6. Load factors:		+4G/-2G	
7. Pro	peller		
	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. Flui	ds		
	8.1 Fuel		
	Refer to Pilot Operating Handbook POH-121A-00-40-050_B00, Section 2.8		
	8.2 Oil		
		andback DOU	121.00.40.0E0. P00. Section 2.0
	Refer to Pilot Operating Handbook POH-121-00-40-050_B00, Section 2.9		
	8.3 Coolant		
Refer to Pilot Operating Handbook POH-121-00-40-050_B00, Section 2.9			



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9. Fluid capacities	
9.1 Fuel	Total: 100 liters
	Usable: 99 liters
9.2 Oil	Maximum oil capacity: 3.2 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 Capability	VFR day operations; Night VFR operations
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 / 356 mm
15. Reference datum	The wing's leading edge at the root of the wing
16. Control surface deflections	Refer to SAMM-121A-00-60-050_A01 or later approved issue
17. Levelling Means	Refer to section 6.2 of the POH-121A-00-40-050_B00 or later approved issue
18. Minimum Flight Crew	One (1) pilot
19. Maximum Passenger Seating Capacity	One (1) passenger
20. Baggage/ Cargo	Location – port side, aft of the door
Compartments	Maximum load – 25 kg / 55 lbs



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TCDS No.: EASA.A.573 Virus SW 121 Date: 01 March 2022 Issue: 11 21. Wheels and Tyres Main wheel - 4.00" x 6" Nose wheel - 4.00" x 4" For approved wheel and tyre types refer to the IPC-121-00-50-001 revision D01 or later approved issue 22. Lifetime limitations Refer to AMM-121-01-00-001 B03 or later approved issue and SAMM-121A-00-60-050_A01 or later approved issue D.IV. **Operating and Service Instructions** 1. Aircraft Flight Manual POH-121A-00-40-050_B00 or later approved issue 2. Aircraft Maintenance Manual AMM-121-01-00-001_B03 or later approved issue SAMM-121A-00-60-050_A01 or later approved issue

3. Structural Repair ManualRefer to AMM-121-01-00-001_B03 or later approved issueSAMM-121A-00-60-050_A01 or later approved issue

- 4. Weight and Balance Manual Refer to POH-121A-00-40-050_B00 or later approved issue
- 5. Illustrated Parts Catalogue IPC-121-00-50-001_D01 or later approved issue

D.V. <u>Notes</u>

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 Union Aviation Safety Agency		
ESS	Energy Storage System		
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		
РОН	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



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III. Change Record

Issue	Date	Changes	TC Issue No. & Date
lssue 01	18/04/2016	Initial Issue	18/04/2016
Issue 02	22/09/2017	Update for major change Night VFR operations	
Issue 03	12/03/2018	Corrected in section A.IV the reference to the Maintenance Manual	
Issue 04	15/10/2018	Change of Type Certification Holder, Removed reference to CRI A-01 from section A.II (2)	
Issue 05	10/06/2020	Model Virus SW 128 added	
Issue 06	10/06/2020	Corrected Commercial designation "Velis Electro" for Virus SW 128	
Issue 07	15/06/2020	Corrected typos (see right bar)	
Issue 08	25/01/2021	Model Virus SW 121C added	
Issue 09	08/02/2021	Correction to SW121 and SW 121 C engine designations, correction to SW 121 C, add reference to Commercial designation [Velis Club], and addition of Note 3 Optional baggage compartment.	
Issue 10	17/12/2021	Model Virus SW121A added, Manufacturer's name corrected, and type design information corrected.	
lssue 11	01/03/2022	New battery type PB345V119E-L added to model Virus SW 128	

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