

## KCT-01442 AIRPLANE TRAINER REQUIREMENTS CHECKLIST

Complete this checklist and include it within the bid submission. An incomplete checklist may result in disqualification. For each requirement, indicate whether the aircraft meets the specification. If offering an alternate, select "Yes" under Alternate Offered and provide a brief description of the alternate along with the corresponding manufacturer and model number, where applicable.

EXEMPT FROM COMPLETING THIS DOCUMENT IF BIDDING EXACTLY AS SPECIFIED, **PIPSTREL APHA TRAINER MODEL 162A.** INITIAL HERE: \_\_\_\_\_

Specifications include but are not limited to the following:

### 1. General

#	Requirement	Meets Spec (Yes/No)	Alternate Offered (Yes/No)	Alternate Description
1.1	Aircraft is new, factory-built Alpha Trainer Pro 2, S-LSA compliant			
1.2	Manufactured in 2026 or later			
1.3	New, previously untitled; factory test-flown only			
1.4	Complies with ASTM Light-Sport standards			
1.5	Equipped with 406 MHz ELT			
1.6	10.5 m wing-span, two-seater aircraft			
1.7	White outside surfaces with blue livery, grey cabin interior composite surfaces			
1.8	Acrylic paint on outside surfaces			
1.9	Blue cabin upholstery with padded spar cover			
1.10	Seats with adjustable head rest			
1.11	4 point "schroth" seat belts			
1.12	Cabin ventilation adjustable intake on the left door			
1.13	Cabin ventilation adjustable intake on the right door			
1.14	Noise reducing & stainless steel protected firewall			
1.15	Dual control stick, dual rudder pedals			
1.16	2 stage positive flaperons			
1.17	Electric elevator trim			
1.18	In-flight adjustable pedals for both pilot & co-pilot			
1.19	UV protected, scratch resistant Lexan windshield			
1.20	Three point door locking			
1.21	Fixed composite landing gear, heavy-duty training undercarriage, front "rim size" 3.50 x 4, tire size 4.00 - 4, main landing gear, "rim size" 4.00 x 6, "tire size" 4.00 - 6			
1.22	Beringer high performance main wheels & brakes with central brake lever in the cockpit			

1.23	Steerable nose wheel			
1.24	Tie-down points on wings and tail			
1.25	Fuel gascolator with drain sump			
1.26	Cabin heating system			
1.27	Rotax 912 UL2 80 hp, 4 cylinder 4 stroke engine with 2 carburettors integrated gearbox, Titanium standard exhaust "Akrapovic"			
1.28	Electric starter			
1.29	High capacity lead-acid dry-type 12V battery (11Ah)			
1.30	Electric system with fuses on primary and secondary circuit. Ignition switch, magneto switches, starter button			
1.31	12V power socket			
1.32	Dual USB 2.0 Socket			
1.33	Rigid, new shape eco-leather seats and cockpit upholstery upgrade			
1.34	Spinner			
1.35	Rotax toolkit			
1.36	Puriplane super efficient surface polishing and protection KIT			
1.37	Basic spare parts kit			
1.38	Aircraft hoist system - hanging points on the aircraft only			
1.39	Ground tie-down kit with anchors, ropes and tie down rings in the wing			
1.40	Wings, tail and fuselage covers in light cloth			
1.41	Closed Trailer for the airplane			
1.42	Registration markings (UV resistant decals)			

## 2. Airframe

#	<u>Requirement</u>	<u>Meets Spec (Yes/No)</u>	<u>Alternate Offered (Yes/No)</u>	<u>Alternate Description</u>
2.1	Nose wheel model			
2.2	50 l (13.5 USG) Polyamide Fuel Tank with bigger fuel tank opening for aviation fuel nozzle			
2.3	Large instrument panel			
2.4	Solid luggage Compartment behind the seats			
2.5	Electric driven airbrakes, automatically activated when the flaps are in the second position.			
2.6	Wingtip NAV & strobe lights (LED), Tail LED light, Landing LED light			
2.7	Ballistic rescue system GRS with container (6/473)			
2.8	Oil check door on top engine cowling			
2.9	Oil thermostat			
2.10	Aluminium throttle and choke levers			
2.11	Camlocks on the engine cowling (0.4 kg)			
2.12	2 blade fixed pitch propeller, 63" diameter			

### 3. Dimensions

#	<u>Requirement</u>	<u>Meets Spec (Yes/No)</u>	<u>Alternate Offered (Yes/No)</u>	<u>Alternate Description</u>
3.1	Overall Height: 6 ft 9 in			
3.2	Overall Width: 34 ft 5 in			
3.3	Overall Length: 21 ft 4 in			
3.4	Wing Area: 99.9 ft <sup>2</sup>			
3.5	Horizontal Tail: 7 ft 3in; Area 11.6 ft <sup>2</sup>			
3.6	Vertical Tail: 4 ft 3in; Area 11.8 ft <sup>2</sup>			

### 4. Weight Fuel

#	<u>Requirement</u>	<u>Meets Spec (Yes/No)</u>	<u>Alternate Offered (Yes/No)</u>	<u>Alternate Description</u>
4.1	MTOW: 1,212 lb			
4.2	Typical Empty Weight: 683 lb			
4.3	Useful Load: 529 lb			
4.4	Fuel Capacity (usable): 12.6 gallons			

### 5. Engine Propeller

#	<u>Requirement</u>	<u>Meets Spec (Yes/No)</u>	<u>Alternate Offered (Yes/No)</u>	<u>Alternate Description</u>
5.1	Rotax 912 UL engine. Takeoff Power rating at sea level: 80 hp			
5.2	Time Before Overhaul: 2,000 hours			

### 6. Performance

#	<u>Requirement</u>	<u>Meets Spec (Yes/No)</u>	<u>Alternate Offered (Yes/No)</u>	<u>Alternate Description</u>
6.1	Takeoff distance over 50 ft Obstacle: 1,486 ft			
6.2	Landing distance over 50 ft Obstacle: 1,440 ft			
6.3	Takeoff ground roll: 781 ft (Maximum Takeoff Weight, Sea Level, ISA, Zero Wind, Maximum Continuous Power, Paved and Dry Runway)			
6.4	Maximum Climb rate: 948 ft/min (MTOW, Sea Level, ISA, Zero Wind, Maximum Continuous Power)			
6.5	Service ceiling: 18,000 ft			
6.6	Typical Cruise Speed (+/-3%): 106 KTAS (MTOW, Sea Level, ISA, Zero Wind, 5500 RPM)			
6.7	Maximum Endurance: 3 hrs 36 min (339 nm) (Excluding 30 minute VFR Reserve)			
6.8	Landing Ground Roll: 686 ft (MLW, Flaps Full)			
6.9	Noise Levels, Takeoff: 55.5 dB (MTOW, 500 ft (150 m) height, VNE, MCP)			

## 7. Design Limits

#	<u>Requirement</u>	<u>Meets Spec (Yes/No)</u>	<u>Alternate Offered (Yes/No)</u>	<u>Alternate Description</u>
7.1	Design Load Limits: Flaps Up: -2.0 to + 4.0 G			
	Operating Speed Limits:			
7.2	VNE (Never exceed speed): 130 KIAS			
7.3	VNO (Maximum structural cruising speed): 104 KIAS			
7.4	VA (Maneuvering speed): 92 KIAS			
	Flap Limit Speeds			
7.5	VFE (Flaps extended 9°): 70 KIAS			
7.6	VFE (Flaps extended 19°): 60 KIAS			
7.7	Stall Speed: Full Flaps: 42 KIAS			

## 8. Avionics Systems

#	<u>Requirement</u>	<u>Meets Spec (Yes/No)</u>	<u>Alternate Offered (Yes/No)</u>	<u>Alternate Description</u>
8.1	Garmin G3X 460/5 Touch – Single 10.6” PFD/MFD			
8.2	Garmin G5 backup + Battery pack			
8.3	Garmin G3X Autopilot GMC 507 + 2 servos GSA28 & GSA28			
8.4	Garmin GNX 375 2” Touchscreen Nav/XPDR ADS-B In & Out			
8.5	Garmin GNC 215 NAV/COM Radio (primary COM)			
8.6	Garmin GTR 205 COM Radio (secondary COM)			
8.7	Garmin GMA 245R Remote Audio Panel w/BT			
8.8	ELT Artex 345 – Compact 406 MHz (mandatory for USA LSA)			
8.9	Slip skid indicator			
8.10	Magnetic compass			

## 9. Landing Gear

#	<u>Requirement</u>	<u>Meets Spec (Yes/No)</u>	<u>Alternate Offered (Yes/No)</u>	<u>Alternate Description</u>
9.1	Fixed tricycle gear			
9.2	Beringer hydraulic brakes			
9.3	Steerable nosewheel			
9.4	Main Gear tire: 4.00 x 4 (4-ply)			
9.5	Nose Gear Tire: 4.00 x 6 (6-ply)			

## 10. Standard & Loose Equipment

<u>#</u>	<u>Requirement</u>	<u>Meets Spec (Yes/No)</u>	<u>Alternate Offered (Yes/No)</u>	<u>Alternate Description</u>
10.1	Ballistic parachute system included			
10.2	Tie-down rings			
10.3	Rotax 912 toolkit			
10.4	Pipistrel toolkit			
10.5	PuriPlane cleaning kit			
10.6	Pitot tube cover			
10.7	1 Headset			

## 11. Delivery Warranty

<u>#</u>	<u>Requirement</u>	<u>Meets Spec (Yes/No)</u>	<u>Alternate Offered (Yes/No)</u>	<u>Alternate Description</u>
11.1	Delivery FOB Destination			
11.2	Complete logbooks provided at delivery			
11.3	Airframe warranty no less than: 24 months or 400 hours			
11.4	Garmin avionics warranty included			
11.5	Rotax engine warranty included			
11.6	Helix propeller warranty included			