

SKY ARROW 450/480 SERIES



ULTRALIGHT AND ADVANCED ULTRALIGHT AIRCRAFT (SKY ARROW 450 TS and 480 TS)

These aircraft are built under special rules which differ from country to country. The rules identify the Ultralight and Advanced Ultralight category as composed of those airplanes which meet certain requirements such as maximum stall speed, maximum take-off weight (MTOW) and maximum 2 seats. The MTOW is usually the variable parameter which depends on the local rules. In Europe the approved MTOW is 450 kg, in Canada, Australia & New Zealand it is set at 480 kg. Our aircraft, approved from 450 to 480 kg MTOW is built with the same construction philosophy as the certified series and owing to the restrictions on MTOW, has a slightly lighter structure and is basically less equipped.

MODERN DESIGN, HI-TECH CONSTRUCTION

The Sky Arrow UL/AUL is easy to fly, with superb visibility and low operating costs. The Sky Arrow UL/AUL is an outstanding personal aircraft, as well as an excellent trainer. Manufactured with corrosion-free carbon fibre sandwich, the airframe is extremely strong yet lightweight, resulting in an aircraft with exceptional take-off and flight performance.

PARTS MODULARITY

Unique to these aircraft is our modular construction philosophy. Wings, horizontal stabilizer, instrument panel, powerplant, electric system: each of these elements can be easily and quickly detached from the aircraft, thus simplifying maintenance operations while minimizing down time and cost.

RELIABLE, MODERN AND ECONOMICAL ROTAX 912 ULS ENGINE

The 100 hp Rotax 912 ULS is the benchmark powerplant for the last generation UL/AUL aircraft. It delivers 25% more power than its predecessor, while keeping fuel consumption at sipping levels. With a cruise speed of about 100 kts, you still burn less than 20 lt/h either of 100LL or automotive fuel.

ERGONOMIC CABIN, COMPLETE PANEL

The wrap-around canopy, comfortable seats with plenty of headroom, and dual side stick controls provide the ultimate in comfort and visibility for both pilot and passenger. Enjoy the spacious instrument panel, electric flap and elevator trim, low cockpit noise levels and baggage space for local flights or extended trips.



SKY ARROW 450 TS - 480 TS

MODEL	450 TS	480 TS
POWERPLANT		
ENGINE	ROTAX 912 ULS 98 hp (73,5 KW) @ 5.800 rpm	
PROPELLER	GT 2 blades fixed pitch / several types of 3 blades props available as option	
SPECIFICATION		
LENGTH	24,9 ft (7,6 m)	
HEIGHT	8,4 ft (2,6 m)	
WING SPAN	31,5 ft (9,7 m)	
WING AREA	145 sqft (13,5 m2)	
SEATS	2, tandem configuration	
STANDARD EMPTY WEIGHT	631 lbs (286 kg)	657 lbs (298 kg)
MAX TAKE-OFF WEIGHT	992 lbs(450 kg)	1.058 lbs (480 kg)
FUEL CAPACITY	68 lt / 65 lt usable	
FUEL SPECIFICATION	avgas 100LL or MOGAS 95/98 oct. unleaded	
PERFORMANCE (@ MTOW, ISA conditions, sea level)		
NEVER EXCEED SPEED (VNE)	121 kts (224 km/h)	
MAXIMUM SPEED	108 kts (200 km/h)	
CRUISE SPEED (@ 75% power)	97 kts (180 km/h)	
STALL SPEED (flap 30° full)	33 kts (61 km/h)	34 kts (63 km/h)
RATE OF CLIMB	1.250 fpm (6,4 m/s)	1.230 fpm (6,2 m/s)
TAKE-OFF ROLL	246 ft (75 m)	282 ft (86 m)
TAKE-OFF DISTANCE over 50 ft obstacle	525 ft (160 m)	591 ft (180 m)
LANDING ROLL	246 ft (75 m)	282 ft (86 m)
LANDING DISTANCE over 50 ft obstacle	558 ft (170 m)	617 ft (188 m)
SERVICE CEILING	13.500 ft (4.100 m)	
FUEL CONSUMPTION (@ 75% power)	18,5 lt/h (4,9 gal/h)	
ENDURANCE (@ 75% power, no reserve)	3h 40'	
MAX RANGE (@ 75% power, no reserve)	630 km (340 NM)	
STANDARD CONFIGURATION		
	450 / 480	
POWERPLANT		
Engine: Rotax 912 ULS 98 Hp (4 stroke, 4 cylinder)	x	
Propeller: twin-blade, fixed-pitch, wood/composite	x	
Carburetor Heating System	x	
Air flow separation system	x	
FLIGHT INSTRUMENTATION		
Magnetic Compass	x	
Bank indicator	x	
Airspeed indicator	x	
Altimeter	x	
Vertical speed indicator	x	
Longitudinal trim indicator	x	
Hour meter	x	
Intercom	x	
ENGINE INSTRUMENTATION		
Tachometer	x	
Oil pressure indicator	x	
Oil temperature indicator	x	
Cylinder head temperature indicator	x	
Volt/Ammeter	x	
Fuel level indicator	x	
AIRFRAME		
Weather resistant white finish	x	
Clear canopy with air vents, sliding side window and lock	x	
Removable aft windows	x	
Non-Skid floor with map/glove compartment box	x	
AUXILIARY ACCESSORIES		
Fuel level measuring stick	x	
Fuel inspection cup	x	
Yaw control gust-lock	x	
Plugs for static ports and Pilot tube cover with "Remove Before Flight" streamers	x	
(2) aileron padded locks with "Remove Before Flight" streamers	x	
IN DEVELOPMENT FOR ALL MODELS: Auxiliary tank system - Pedal braking system		
Disabled pilots kit - Marine conversion kit		

1/2007



Disabled pilots kit



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