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RANS S-14 AIRAILE 139 LONG WING

SPECIFICATIONS AND PERFORMANCE

***Double the Range with a second optional wing tank.
 Performance at sea level and maximum gross weight.

SPECIFICATIONS	42 HP	52 HP
	65 HP	
Wing Span.....	31.0 ft	31.0 ft
Area.....	139 sq ft	139 sq ft
Mean Chord.....	4 ft 6 in	4 ft 6 in
Aspect.....	6.88:1	6.88:1
Length.....	20 ft 4 in	20 ft 4 in
Height.....	7 ft	7 ft
Cockpit Width.....	30 in	30 in
Headroom.....	39 in	39 in
Legroom.....	42.5 in	42.5 in
Number of Seats.....	1	1
Doors.....	1	1
Landing Gear*.....	F/TR	F/TR
Baggage Volume**.....	n/a	n/a
Baggage Capacity.....	n/a	n/a
Fuel Capacity***.....	9 gal US	9 gal US

POWER PLANT	447	503	582
Engine.....	Rotax 447	Rotax 503	Rotax 582
Output.....	42 hp	52 hp	65 hp
Oil Capacity.....	n/a	n/a	2.5 qts
Coolant Capacity.....	n/a	n/a	4.4 qts
Propeller Diameter.....	68 in to 72 in	68 in to 72 in	68 in to 72 in
Propeller Type.....	Wood	Wood	Wood
Gear Reduction.....	1:2.58	1:2.58	1:2.58
Fuel G.P.H.....	3.75 gal @ 85%	4.0 gal @ 85%	5.75 gal @ 85%

PERFORMANCE	447	503	582
Take Off Roll.....	230 ft	200 ft	175 ft
Rate of Climb.....	700 fpm	800 fpm	1000 fpm
Service Ceiling.....	13,000 ft	14,000 ft	15,000 ft
Cruise.....	70 mph	80 mph	85 mph
VNE.....	120 mph	120 mph	120 mph
Stall Clean.....	35 mph	36 mph	36 mph
Stall Flaps.....	30 mph	32 mph	32 mph
Roll Rate.....	70° /sec	70° /sec	70° /sec
Glide Ratio.....	9:1	9:1	9:1
Landing Roll.....	130 ft	130 ft	130 ft
Endurance.....	2.4 hrs	2.25 hrs	1.56 hrs
Range.....	168 miles	180 miles	132.6 miles

WEIGHTS AND LOADINGS	447	503	582
Gross Weight.....	775 lbs	850 lbs	875 lbs
Empty Weight.....	380 lbs	390 lbs	410 lbs
Useful Load.....	395 lbs	460 lbs	465 lbs
Wing Loading.....	5.57 lbs	6.1 lbs	6.3 lbs
Power Loading.....	18.4 lbs	16.35 lbs	13.4 lbs
Limit Load Factors.....	+4-2	+4-2	+4-2

*F/TR=Fixed Trike
 **50 lbs of baggage can be carried in the space available behind the seats.

STANDARD EQUIPMENT

- Full enclosure
- ROTAX engine and engine install kits (see pricing info)
- 2-Blade prop
- Semi-focal 4-point rubber isolated engine mount
- Steerable nose gear, drum toe brakes
- 6" Nose and main gear aluminum wheels
- Tubular spring steel main gear
- Seating adjusts fore and aft, 4 positions and tilt
- Upholstered seat with map pockets
- Center control stick, 4 position flaps
- ASI, Hourmeter, engine instruments vary with engine package
- Aluminum airfoil struts
- 3" Main wing spar
- 2" Trailing wing spar
- 5" Tail boom
- Root rib tension system on wings, ailerons and flaps
- Wings fold or detach
- Folding jury struts
- Ball bearing aircraft control pulleys
- Welded 4130 cockpit cage comes powder coated
- Fuel sump drain
- Dual cockpit air vents
- 9 Gallon fuel wing tank
- Lap and shoulder belts
- Dual elevator horns operated by 1.25" push-pull tube
- Push-pull tube ailerons with 2:1 differential
- Folding tail for storage
- 4 ounce Dacron skin in choice of colors

The S-14 Airaile is an FAA Approved 51% Kit – No Painting*, fabric work or welding required. Clear coating of covering recommended. Order our video to learn the how-to's of clear coating.

*Enclosure pieces provided unpainted, 6061-T6 can be polished or painted.

Build Time: 350 hours

RANS, Inc. reserves the right to make changes to prices, specifications or models or add improvements at any time without notice or obligation. Some measurements are approximate. Many photos show optional equipment.

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