

Symphony 160 Specifications

English

Metric

Performance

Cruise, 62% power at 8,000 ft (VFR reserves)

Time	3.6 hrs	3.6
Range	425 nm	788

Engine: Lycoming O-320 D2A\
160 hp @ 2700 RPM

Power Loading	13.4 lbs/hp	8.19
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Propeller: Fixed Pitch, Diameter	73 in	1854
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Rate of Climb Sea level	710 fpm	3.6
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Service Ceiling	16,400 ft	5,000
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Speed

Max at Sea Level	130 kts	240
75% at 8,000 ft	128 kts	237

Stall Speed (CAS)

Flaps Up, Power off	59 kts	109
Flaps Down, Power off	50 kts	93

Operating Speeds

Va/Vo Manoeuvring Speed Flaps up	116 kts	215
Vfe Max Flap Extend Speed	90 kts	167
Vne Never Exceed Speed	162 kts	300
Vno Max Structural Cruising Speed	130 kts	241
Vs Stalling speed in Normal Configuraion	60 kts	111
Vso Stalling Speed in Landing Configuration	51 kts	94
Vx Best Angle of Climb Speed	70 kts	130
Vy Best Rate of Climb Speed	80 kts	148
Approach Speed Full Flap	65 kts	120
Max Demonstrated X Wind Takeoff	20 kts	37
Max Demonstrated X Wind Landing	17 kts	31
Best Glide Speed Flaps Up	74 kts	137
Best Glide Speed Flaps Down	65 kts	120

Takeoff Performance

Ground Roll	982 ft	299
Over 50 ft Obstacle	1309 ft	399
Landing Performance		
Ground Roll	715 ft	217
Total over 50 ft Obstacle	1827 ft	556
Wing Loading	16.73 lbs/sq ft	81.7

Approx Dimensions

Baggage Door		
Height (front)	10 in	254
Height (Rear)	16 in	405
Width	26 in	660
Sill Height	35.5 in	900

Baggage Compartment		
Height Front	30.3 in	770
Height Rear	17.7 in	450
Width Front	33.4 in	870
Width Rear	17.3 in	440
Overall Length	49.4 in	1225
Volume	30.72 cu ft	870

Cabin		
Height (Max)	44.8 in	1140
Length (Firewall to aft Baggage Area)	97.4 in	2474
Width (Front Seat)	43.3 in	1100

Cabin Door		
Height (Rear)	31.5 in	800
Width (Top)	23 in	585
Width (bottom)	31.7 in	805
Sill Height	33 in	840

Overall Height	9'3" ft	2.82
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Overall Length	22'10" ft	6.96
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Wing		
Span	35 ft	10.67
Area	128 sq ft	11.9

Design Weights & Capacities

Baggage Allowance	165 lbs	75
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Fuel Capacity			
Total Capacity	32.2 gal		122
Total Useable	29.1 gal		110
Total Capacity Each Tank	16.1 gal		61
Max Useful Load	700 lbs		318
Oil Capacity	8 qt		7.6
Ramp Weight	2150 lbs		975
Standard Empty Weight	1450 lbs		658
Takeoff Weight	2150 lbs		975

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