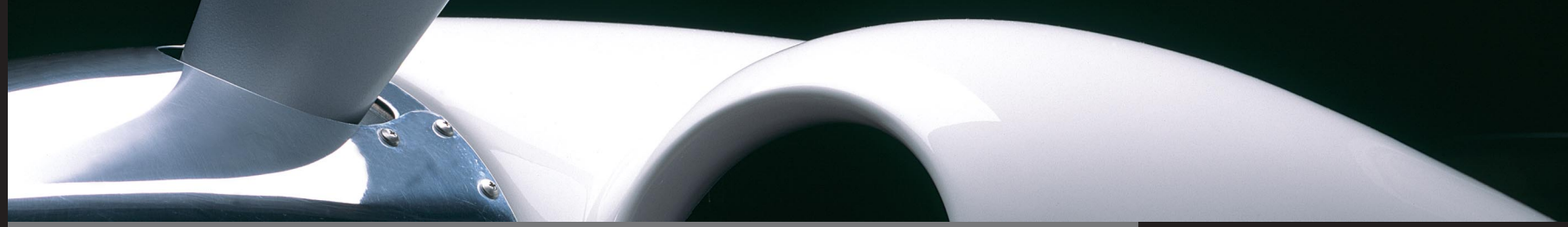

COLUMBIA 350™

COLUMBIA 350 SPECIFICATIONS



Certified to FL180

ALL-ELECTRIC WITH DUAL INDEPENDENT ELECTRICAL SYSTEMS

ENGINE, PROPELLER AND AIRFRAME DATA	
Engine	TCM IO-550-N, 310 hp
Propeller	Hartzell 3 Blade
Time Between Overhauls	(TBO) 2000 hrs.
Length	25.2 ft.
Height	9 ft.
Wingspan	36 ft.
Wing Area	141.2 sq. ft.
Wing Aspect Ratio	9.2
Wing Loading	24 lbs./sq. ft.
Power Loading	10.97 lbs./hp
Maximum Fuel (US Gallons)	98 Usable
Oil Capacity	8 qts.
Wheel Track	88 in.
Wheel Base	80.2 in.
(Distance between nose gear and main gear lateral axis)	

WEIGHT DATA	
Takeoff Weight	(Maximum) 3400 lbs.
Ramp Weight	(Maximum) 3400 lbs.
Empty Weight	(Approximate) 2300 lbs.
Useful Load	(Approximate) 1100 lbs.
Landing Weight	(Maximum) 3230 lbs.
Baggage Weight	(Maximum) 120 lbs.

SPEED DATA	
V_Y Best Rate of Climb	(Sea Level) 106 KIAS
V_X Best Angle of Climb	(Sea Level) 80 KIAS
V_O Maximum Operating Maneuvering Speed	(3400 lbs. gw) 148 KIAS
V_{FE} Maximum Flap Extended Speed (Full Flaps)	119 KIAS
V_{FE1} Maximum Takeoff Flap Extended Speed (Takeoff Flaps)	
	129 KIAS
V_{NO} Maximum Structural Cruising Speed	179 KIAS
V_{NE} Never Exceed Speed	235 KIAS
V_{SO} Stall Speed in the Landing Configuration	57 KIAS
V_{S1} Stall Speed (Takeoff Flaps)	65 KIAS
V_{SN} Stall Speed (No Flaps)	71 KIAS

CRUISE DATA	
Maximum Cruise Speed	190 KTAS (219 mph)
(8000 ft. Density Altitude)	
Maximum Range @ Best Performance	950 Nautical Miles*
Maximum Range @ Best Economy	1320 Nautical Miles*
*Includes climb, descent and 45 minute reserves	

PERFORMANCE DATA	
Takeoff Distance (Sea Level – Standard Temp.)	
Ground Run (No wind at 3400 lbs. gw)	1300 ft.
Over 50 ft. Obstacle (No wind at 3400 lbs. gw)	2300 ft.
Landing Distance (Sea Level – Standard Temp.)	
Ground Run (No wind at 3400 lbs. gw)	1550 ft.
Over 50 ft. Obstacle (No wind at 3400 lbs. gw)	2350 ft.
Maximum Rate of Climb	1225 fpm
(Sea Level – Standard Temp. – Full gw)	
Maximum Rate of Climb	1400 fpm
(Sea Level – Standard Temp. – 3000 lbs. gw)	
Maximum Certified Operating Altitude	FL180
(18000 ft. MSL)	

THE ALL-ELECTRIC COLUMBIA 350 COMES STANDARD** WITH DUAL INDEPENDENT ELECTRICAL SYSTEMS

+ Cross-tie Ability During Alternator Failure
+ Dual Batteries
+ Dual Alternators and Regulators
+ Starting Ability with Either Battery or Both Batteries During Cold Weather
+ Essential Bus Automatically Fed from Either System
+ Avionics Bus Automatically Fed from Either System
+ Dual Pointer Ammeter Displays Either Both Batteries or Alternator Conditions

ALL-ELECTRIC COLUMBIA 350 SMARTVISION IFR PACKAGE**

Dual Independent Electrical Systems	
Avidyne FlightMax Multi-Function Display (MFD)	EX5000
Avidyne FlightMax Entegra Primary Flight Display (PFD) with ADAHRS	
S-TEC Autopilot with Altitude Preselect, Autotrim and GPSS	55X
Garmin GPS (Approach/IFR)/Nav/Comm with Glide Slope	GNS-430
2nd Garmin GPS (Approach/IFR)/Nav/Comm with Glide Slope	GNS-430
Garmin Stereo Audio Panel with Remote Marker Beacon Indicators	GMA-340
Garmin Transponder – Mode A, C	GTX-327
Trans-Cal Blind Encoder	SSD120

PARTIAL LIST OF OPTIONS**

TCM Platinum Engine Upgrade

E-Vade™ Electrically Heated Leading Edge Anti-Ice Protection***

Climate Control™ Advanced Environmental Comfort System

SatWX™ Satellite Weather Data Link

E-Cast™ On Demand Weather and Messaging

E-Monitor™ Digital Engine Monitoring and Fuel Computer

E-Plates™ Electronic Approach Plates

T-Watch™ Transponder-Based Traffic Advisory System (TAS)

R-Watch™ Radar-Based Traffic Information Service (TIS)

Columbia (LightSPEED) Headset with Cell Phone Interface

Bose Stereo Headsets

Precise Flight SpeedBrakes™

Nelson Portable Oxygen System

** Components are subject to change without notice. Columbia Aircraft has the right to substitute other equipment that it believes has comparable features. Options are subject to certification and availability at time of delivery. Contact your Columbia Aircraft Salesperson for latest information. See "Equipment List" for additional standard features.

*** Available upon certification (expected 2005).

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