

COLUMBIA MODEL 107-II VERTOL



The Columbia Model 107-II Vertol helicopter is a tandem rotor, turbine powered, transport category helicopter originally FAA type certificated by Boeing Vertol in 1962. The type certificate was transferred from Boeing to Columbia Helicopters in 2006.

This aircraft is the commercial model of the military variant, CH-46 Sea Knight. The Columbia Model 107-II Vertol has the ability to be configured for multiple uses, including commercial passenger transportation, internal and external cargo transportation, firefighting operations, defense support operations, heli-logging operations, oil and gas exploration, and infrastructure support.

The Columbia Model 107-II Vertol has a maximum gross weight of 22,000 pounds with an internal cargo capacity of up to 10,000 pounds and ability to carry external loads of up to 11,500 pounds. The maximum range of the Columbia Model 107-II Vertol is 250 nautical miles.

The Columbia Model 107-II Vertol is equipped with two General Electric CT58-140-2 engines with a maximum speed of 148 knots, and a cruising speed of 120 knots.

PERFORMANCE SPECS

	<i>Imperial</i>	<i>Metric</i>
Maximum Gross Weight	22,000 lbs	9,979 kgs
Maximum External Load	11,500 lbs	5,216 kgs
Internal Useful Load <i>(20°C OAT, MSL, min fuel)</i>	7,700 lbs	3,493 kgs
External Useful Load <i>(20°C OAT, MSL, min fuel)</i>	9,700 lbs	4,400 kgs
Range <i>(Max Fuel)</i>	250 nm	463 km
Range <i>(Max Fuel & Aux Tanks)</i>	358 nm	663 km
Fuel Capacity	350 gal	1,325 liters
Fuel Capacity <i>(w/ Aux Tanks)</i>	548 gal	2,074 liters
Fuel Consumption	165 gal/hr	624.5 liters/hr
Maximum Speed	148 knots	274 km/hr
Cruise Speed	120 knots	222 km/hr
Service Ceiling	13,000 feet	3,962 m

DIMENSIONS

Rotor Diameter	43 x 71 feet	14.3 x 23.7 m
Length with Rotors Operating	50 x 83 feet	15.2 x 25.3 m
Fuselage <i>Length x Width</i>	44 x 14 feet	13 x 4 m
Height	17 feet	5 m
Internal Cabin <i>Length x Width</i>	20.7 x 6 feet	6.3 x 1.8 m
Internal Cabin Height	6 feet	1.8 m
Seating Capacity	17 pax	17 pax

ENGINES 2 X GENERAL ELECTRIC CT58 140-11

Maximum Power Available	1,375 shp
Single Engine Limit	1,500 shp

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Configurations

Long Range



Utility



PAX

