

Specifications & Performance

Range*	1,064 nm
Max cruise speed (early models)	390 ktas
Cabin dimensions	Height: 4.9 ft
	Width: 5.1 ft
	Length: 11 ft

* with four passengers (200 lb each, including baggage),
NBAA IFR 200 nm reserve

Economics

Total variable flight cost/hour	\$1,120
Total fixed cost/year	\$233,514
Total cost/year**	\$841,772

**Includes variable and fixed costs plus market depreciation and assumes usage of 175,000 nautical miles and 543 flight hours

Source: Conklin & de Decker, Orleans, Mass.

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Embraer Phenom 100 compared with other aircraft

Model	First year produced	Variable cost/hour	Seats exec/max	Range (nm)	Normal cruise (kt)	Max takeoff weight (lb)
Phenom 100	2008	\$1,120	5/7	1,064	390	10,472
TBM 850	2008	\$777	5/6	1,173	320	7,394
Citation Mustang	2006	\$1,123	4/5	743	340	8,645

Assumptions: Aircraft are 2010 models. Jet fuel \$4.30/gal; variable cost: fuel plus maintenance reserves; four passengers; NBAA IFR 200 nm reserve fuel; passenger weight 200 lb includes baggage; one pilot. Max cabin altitude, 8,000 ft.

Sources: Conklin & de Decker Life Cycle Cost, Conklin & de Decker Aircraft Performance Comparator.