

# Comparison:



## Whirlwind System II™ Hot-Day Performance Comparison Chart

Aircraft Model	Time to Climb to 12,500 ft at 120 KIAS	Time to Climb to 18,000 ft at 120 KIAS	Max Sensible Cruise Speed at 12,500 ft	Economy Cruise Speed at 12,500 ft	Max Sensible Cruise Speed at 18,000 ft	Economy Cruise Speed at 22,000 ft
<b>Whirlwind System II™ Beech A36/G36 w/TNIO-550</b>	<b>&lt; 14 minutes</b>	<b>&lt; 22 minutes</b>	<b>190 KTAS at 16.8 GPH</b>	<b>180 KTAS at 14.5 GPH</b>	<b>202 KTAS at 17 GPH</b>	<b>196 KTAS at 15.1 GPH</b>
<b>Beech A36/G36 w/ IO-550</b>	<b>&gt; 35 minutes</b>	<b>Not Feasible</b>	<b>160 KTAS at 15 GPH</b>	<b>Not Feasible</b>	<b>Not Feasible</b>	<b>Not Feasible</b>
<b>Beech B36TC</b>	<b>~ 18 minutes</b>	<b>~ 27 minutes</b>	<b>181 KTAS at 16.9 GPH</b>	<b>169 KTAS at 14.1 GPH</b>	<b>190 KTAS at 16.5 GPH</b>	<b>191 KTAS at 15.1 GPH</b>
<b>Beech B58 Baron w/ IO-550s</b>	<b>&gt; 18 minutes</b>	<b>&gt; 35 minutes</b>	<b>196 KTAS at 26.6 GPH</b>	<b>190 KTAS at 22.2 GPH</b>	<b>177 KTAS at 18.2 GPH</b>	<b>Not Feasible</b>
<b>Cessna T210</b>	<b>13-16 minutes</b>	<b>25-29 minutes</b>	<b>184 KTAS at 17.8 GPH</b>	<b>177 KTAS at 16.3 GPH</b>	<b>197 KTAS at 17.8 GPH</b>	<b>205 KTAS at 17.5 GPH</b>

### What Does This Chart Show?

1. Hot day conditions are the most challenging conditions to compare performance. Even under these circumstances, an A36 Bonanza equipped with the **Whirlwind System II™** climbs to 12,500 feet in less than half the time than without the turbo and is 30 kts faster once it gets there!
2. An A36/G36 Bonanza equipped with the **Whirlwind System II™** is faster and more fuel-efficient than a factory B36TC Bonanza or a Cessna T210 at all altitudes!

- Every effort has been made to accomplish a good "apples-to-apples" comparison.
- Aircraft performance data have been interpolated from the respective Beech and Cessna POH manuals.
- **Whirlwind System II™** speeds are all obtained operating lean of peak, with maximum CHT < 380° F at cruise.
- Baseline data for the **Whirlwind System II™** was obtained during hot day conditions, with surface temp > 109° F.