

Date: 06/14/16

Revision:4

### **SUMMARY OF PERFORMANCE SPECIFICATIONS**

Gross Weight 1320 lb

Top Speed  
(@ gross weight) 117 KIAS

Cruise  
(@ gross weight, 5500rpm) 114 KIAS

Range  
(@ gross weight , 5500rpm, 7500ft, 30 min reserve) 425 nm

Rate of Climb  
(@ gross weight,  $V_Y$  75 KCAS, sea level) 906ft/min

Stall Flaps Down  
@ gross weight,  $V_{SO}$  41 KIAS

Stall  
@ gross weight,  $V_S$  45 KIAS

Total Fuel Capacity 19.8 US Gallons

Total Unusable Fuel (See Warning on page 2-6)  
Shallow Climbs, Level or Descending Flight: 0 US  
Gallons  
 $V_X$  Climb: 3 US Gallons  
Climbs: 4 US Gallons

Approved Fuel Types 100 LL Aviation Fuel or  
91 AKI Premium Unleaded Automotive

Maximum Engine Power 100 Hp @ 5800 (5 minutes maximum)

Revision:7

Date: 06/14/16

**AIRSPPEED LIMITATIONS**

| <b>AIRSPPEED DESIGNATION</b>                            | <b>KIAS</b> |
|---|-------------|
| Stall Flaps Down at gross weight 1320 lbs $V_{SO}$      | 41          |
| Stall at gross weight 1320 lbs $V_S$                    | 45          |
| Flap Operating Range $V_{SO} - V_{FE}$                  | 41-82       |
| Normal Operating Range <b>green arc</b>                 | 45-108      |
| Operating Maneuvering $V_O$ 1320 lbs.                   | 90          |
| Operating Maneuvering $V_O$ 850 lbs.                    | 72          |
| Maximum Structural Cruise $V_{NO}$                      | 108         |
| Caution Range <b>yellow arc</b>                         | 108-136     |
| Maximum Direct Crosswind Component                      | 11          |
| Maximum Wind Limitation                                 | 30          |
| Never Exceed $V_{NE}$ <b>red line</b> below 16,000 feet | 136         |

| <b>AIRSPPEED DESIGNATION</b>          | <b>KTAS</b> |
|---------------------------------------|-------------|
| Never Exceed $V_{NE}$ <b>red line</b> | 136         |

**NOTE**

|                 |  |
|-----------------|--|
| KCAS            | Knots Calibrated airspeed is indicated airspeed (IAS) corrected for installation and instrument error. |
| KIAS            | Knots Indicated airspeed assumes zero instrument error only.   |
| KTAS            | Knots speed of the aircraft relative to the air mass in which it is flying.                            |
| $V_{NE}$        | Maximum safe airspeed, not to be exceeded at any time.   |
| $V_{NO}$        | Not to be exceeded except in smooth air only and then with caution.                                    |
| $V_{FE}$        | Not to be exceeded with flaps extended.  |
| $V_O$ ( $V_A$ ) | No full or abrupt control movements allowed above this airspeed.                                       |