ARROW III N6948C SPECIFICATIONS Revision 05-17-16

TYPE **Model -** Piper PA-28R-201 Arrow III
Engine - Lycoming I0-360-C1C6, 200 BHP @2700RPM
PROPELLOR **Type -** Constant Speed - Hartzell F7666A-2R
Minimum/Maximum Static RPM 2700RPM (Max Power Check)

OIL **Sump** = 8qt **Minimum** = 6qt **Normal Flight** (-3 hrs) = 6qts
Principal Type – 100W Plus **Max consumption** -
FUEL **Useable fuel** –72 US Gal. total, 36 per side **Fuel type** – 100LL
25 US Gal usable at tabs
Total Fuel - 77 US Gal, 5 total unusable

ELECTRICAL SYSTEM
Alternator - 14 volt/60 amp unit
Battery - 12 volt/25 amp-hour unit

LANDING GEAR
Gear Type - Retractable, hydraulically actuated with an electrically driven pump
Min. Taxi turn-radius- 30 feet (from pivot point to wing tip)
Nose Wheel Travel- 30° steerable w/ hydraulic shimmy dampener and bungees

FLIGHT LOAD LIMITS
Normal Category - +3.8/-1.52Gs. Acrobatic Maneuvers and Spins Prohibited

SPEEDS
Vne 183 kts **Vno** 146 kts **Vfe** 103 kts **Vs** 60 kts **VSo** 55 kts **Vr** 65 kts
Vy - 90 kts with flaps & gear up **Vx** – 78 kts with flaps retracted **Va** - 118 kts @ 2750 lbs
80 kts with gear down 72 kts with gear & flaps down 96 kts @ 1865 lbs
Best Glide - 79 kts **Engine Failure on take-off** – 79 kts **Precautionary landing** - 72 kts
Short Final – 85 kts flaps up
80 kts 25° flaps
75 kts 40° flaps
Max Ldg Gear Extension/Extended – 129 kts **Max Ldg Gear Retraction** – 107 kts

CROSSWIND
Maximum demonstrated component - 17 kts
FLAPS **Type** – Manually driven single slotted, bar actuated
Degrees of Flaps Travel - Retracted @ 0° / Take off @ 0-25° / Landing @ 0-40°

N6948C WEIGHTS

Max Ramp Weight -	2750 lbs	**Basic Empty Weight** -	1866 lbs
Max Take Off Weight -	2750 lbs	**Useful Load** -	884 lbs
Max Landing Weight -	2750 lbs	**Basic Empty Moment** -	85.04 lb in/1000
Max Bag Area Weight -	200 lbs		

(Forward CG envelope limit varies from 82" to 88.9" depending on weight. Aft limit exists @ 91.5" at all times.)