

SunQuest Aviation Inc.

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North County General Aviation Airport · West Palm Beach · Florida

N4165E PIPER ARCHER III PA-28-181

SPEEDS

	Normal Category MPH
Max Certified Gross Weight	2550 LBS
Maneuvering Load Factor	+3.8G/NO INVERTED MANUEVERS APPROVED
V _A (2550LBS)	113KIAS
V _{NE}	154KIAS
V _{NO}	125KIAS
V _{FE}	102KIAS
V _Y (Flaps 0°)	76KIAS
V _Y (Flaps 25°)	64KIAS
V _X (Flaps 0°)	64KIAS
V _R (Flaps 0°)	60-64KIAS
V _{S0}	45KIAS
V _{S1}	50KIAS
V _{GLIDE}	76KIAS
Recommended Climb(enroute)	87KIAS
Final Approach Speed	75KIAS
Final Approach Speed (Flaps 40°)	66KIAS
Max demonstrated X-wind component	18KIAS

Engine (Lycoming)	O360-A4M
Rated at (2700RPM)	180HP
Oil Capacity (max)	8qt.
Oil Capacity (min)	6qt.
Total Fuel Capacity (2 tanks)	50gal
Total Usable Fuel	48gal
Center of Gravity Range	See Attached

	(Lbs.) WEIGHT	(inches) ARM	(in-lbs) MOMENT
WEIGHT & BALANCE			
Basic Empty Weight (N4165E)	1746.3	88.39	154354.58
Pilot & Passenger		80.5	
Rear Passenger		118.1	
Baggage (Max 200lbs.)		142.8	
Fuel (Max 50gal - 300lbs.)		95.0	
Useful Load:	803.7 lbs.		

Maneuvers	PA-28-181
Normal Category	All Acrobatic Maneuvers, Including Spins, Prohibited