

## OPERATING LIMITATIONS SEAWIND N71RJ

NUMBER OF SEATS: 4  
ENGINE PT6A-20 550 HP De-rated  
PROPELLER MTV Constant Speed 5 Blade E-610  
AVIONICS G900 FULL SUITE with MFD AND PFD  
GRAND RAPIDS MFD, PFD, WX Full NAV AP redundancy  
for G900 including all engine monitoring on a third screen (Grand Rapids EFIS)

**TIRES:** Main Landing Gear – 15/600-6 6.  
**Max load** 1950lbs, Unloaded Inflation 52 psi

Hi altitude capability and one Oxygen tank Portable 2-place headsets and masks

Height 10' 2"

Length 27' 2"

Wing span 35 feet

Cabin length 105 inches

Width, front 52 inches

Width, rear 54 "

Baggage area 10 cubic feet

Propeller speed MT Composite 5 blade 74' constant

Max Gross Wt 4000 take off

Empty Wt ~~2700~~ LBS 2640

Fuel Total: Jet A, 145 gallons (968 Lbs).

Normal: Two 37 gallon Main wing tanks and two 18 gallon Aux tanks = 110. Also a 35 gallon removable center tank for long range excursions

**Sea-level endurance:** With center tank; 6 hours at 140 knots IAS cruise with IFR reserve estimated at 840 NM. (Actual range varies with altitude/TAS).

Service Ceiling FL 240

Rate of climb (SL STD) 2,500 FPM, 3600 Lbs gross weight

Rate of climb FL200 1,505 FPM

Time to climb " " 20,000 in ten minutes with constant 300 shaft horsepower.

TAS with IAS of 140

FL 200 STD 189 Knots 300 HP

TAS at 8,000 159 Knots 300 HP

Theoretical Max Speed 261 Knots 270 HP 30,000' (calculated)

standard atmosphere and 1,000 FPM normal climb rate, 3200 Lbs

Gross Wt

	V <sub>apr</sub>	Approach With Flaps Only
	V <sub>mc</sub>	Minimum Controllable
64	V <sub>xse</sub>	Best Angle
86	V <sub>yse</sub>	Best Rate. All in knots IAS

**Tested knots V Description**

- 66 V<sub>si</sub> Stall Clean
- 55 V<sub>so</sub> Stall Dirty 20\*
- 41 V<sub>so</sub> Stall Dirty 40\*
- 64 V<sub>x</sub> Best Angle Climb, *20° Flaps*
- 86 V<sub>y</sub> Best Rate Climb 1050 FPM *20° Flaps*
- 87-113 V<sub>a</sub> Maneuvering
- 140 V<sub>no</sub> Normal Operating
- 173 V<sub>ne</sub> Never Exceed
- 122 V<sub>le</sub> Landing gear
- 105 V<sub>fe</sub> Flap Extended
- 87 V<sub>gl</sub> Best Glide, ~~91 Knots~~. **10/1Glide Ratio Clean**
- 17 Crosswind Component
- 113 Rough Air

<b>Take Off Distance</b>	<b>Land</b>	<b>Water</b>
3,200 Lbs	870 Ft.	1,100 Ft.
3,400 Lbs	1,175 Ft.	1,400 Ft.
Over 50' Obstacle	1,400 Ft.*	1,600 Ft.*

**Maximum Gross Weights**

	Hard Surface	Water
Take off	3950	3600
Landing	3800	3600

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\* Estimated