

FLIGHT LOAD FACTORS

<u>Category</u>	<u>Limit Load Factor</u>
Light Sport Category	+4.0g/-2.0g

PROHIBITED MANEUVERS**AEROBATICS PROHIBITED!**

Intentional spinning prohibited

PASSENGER WEIGHT LIMITATIONS

Maximum pilot / passenger weight 300lbs per seat, weight and balance permitting.

POWERPLANT LIMITATIONS**Tachometer**

Caution Range (yellow arc)	1400 to 1800 RPM
Normal Range (green arc)	1800 to 5500 RPM
Caution Range (yellow arc)	5500 to 5800 RPM
Maximum (red line)	5800 RPM

Coolant/Cylinder Head Temperature*

Normal in Cruise (green arc)	150° to 230° F
Caution Range (yellow arc)	230° to 248° F
Maximum (red line)	248° F

Oil Temperature

Minimum	120° F
Normal in Cruise	190° to 230° F
Caution Range (yellow arc)	230° F to 248° F
Maximum (red line)	248° F

Oil Pressure

Minimum at Cruise	29 psi
Maximum at Cruise	73 psi
Maximum – Cold (red line)	100 psi
Minimum at Idle (red line)	12 psi

Exhaust Gas Temperature

Maximum Cruise	1560° F
Maximum Take-Off	1616° F

***NOTE**

All engines with new cylinder heads

(Part number 413185/413195 per Rotax SB 912-066UL)
are equipped with sensors that measure coolant temperature.

Older cylinders measured cylinder head temperature.

The EFIS label for new cylinders will continue to be “CHT” even though indications
marked CHT measure Coolant Temperature.

FUEL LIMITATIONS

Fuel Pressure (using engine driven pump 893110, 893114, or 893115)

Normal Range	2.2 to 7.2 psi
Maximum (red line)	7.2 psi
Minimum (red line)	2.2 psi

Fuel Pressure (using engine driven pump other than 893110, 893114, or 893115)

Normal Range	2.2 to 5.8 psi
Maximum (red line)	5.8 psi
Minimum (red line)	2.2 psi

Unusable Fuel

Shallow Climbs, Level or Descending: **0 US Gallons**
Vx Climb: **3 US Gallons**
Climbs: **4 US Gallons**

WARNING

When the fuel level is less than 4 US Gallons, extreme caution should be used during climbs to ensure that the tank outlet remains submerged. Prolonged high pitch angles (greater than 8 deg nose up), may result in fuel starvation and engine stoppage.

Fuel Capacity

Capacity 19.8 US Gallons

Fuel Type

100 LL Aviation Fuel or (91 AKI) Premium Unleaded Automotive*

CAUTION

Long term storage of aircraft with ethanol fuel may cause damage. See SB 13-03-21.

CAUTION

Prolonged use of Aviation Fuel Avgas 100LL results in greater wear of valve seats and greater combustion deposits inside cylinders due to higher lead content. It is therefore suggested to avoid using this type of fuel unless strictly necessary.

NOTE

See the latest version of the Rotax Operators Manual and SI 912-016 for further information on fuel types and limitations.