

1.9.2 Engine Coolant

A conventional, ethylene glycol and water based coolant is used.

Please refer to the Operator's Manual for the 912 engine series, section 10.2.3, and to the current issue of the ROTAX Service Instructions SI-912-016 when choosing an engine coolant.

Description	Ethylenglycol	Water
Mixture ratio [%] anti-freeze / water	50 + 15	50 - 15

CAUTION

Inferior-quality and contaminated coolant may lead to deposits in the cooling system which may result in insufficient engine cooling.

Coolant quantity total: minimum: 2.4 liters
 maximum: 2.5 liters

Coolant quantity in the overflow Bottle: minimum: 0.1 liters
 maximum: 0.2 liters

1.10 WEIGHTS

Max. take-off weight (MTOW): 750 kg
Max. landing weight (MLW): 750 kg
Empty weight: Refer to section 6
Max. weight in baggage compartment: 40 kg
(All baggage must be adequately strapped and secured)
Max. ing loading: 71.4 kg/m²
Min. wing loading: circa 52.6 kg/m²

Dokument No.:	Issue:	Supersedes Issue:	Date:	Page:
FM-AT01-1010-100E	B.01	A.12 (17/09/2008)	12/07/2012	1 - 8-SB-AT01-029

- d) Oil Pressure
- | | | | |
|--|-----------|-----|----------------|
| Minimum: | 0.8 | bar | below 1440 rpm |
| Normal: | 2.0 – 5.0 | bar | above 1440 rpm |
| Maximum during cold start:
(for a short period of time) | 7.0 | bar | |
- e) Fuel Pressure
- | | |
|----------|-------------------|
| Minimum: | red warning light |
|----------|-------------------|
- f) Oil Temperature
- | | | |
|--------------------------------|----------|----|
| Maximum: | 130 | °C |
| Minimum: | 50 | °C |
| Optimal operating temperature: | 90 – 110 | °C |
- g) Cylinder head temperature
- | | | |
|----------|-----|----|
| Maximum: | 120 | °C |
|----------|-----|----|
- h) Outside Air Temperature (OAT) at Start of Engine
- | | | |
|----------|-----|----|
| Minimum: | -25 | °C |
|----------|-----|----|
- Engine must be preheated at OAT below -25°C

2.4.2 Propeller

- a) Manufacturer: MT-Propeller Entwicklung GmbH, Atting, Germany
- b) Model: MTV-21-A/175-05
- c) Propeller diameter: 1.75 m
- d) Propeller speed limitations
- | | |
|-------------------------------------|----------|
| Maximum take-off propeller speed: | 2260 rpm |
| Maximum continuous propeller speed: | 2260 rpm |

<i>Document No.:</i>	<i>Issue:</i>	<i>Supersedes Issue:</i>	<i>Date:</i>	<i>Page:</i>
FM-AT01-1010-100E	B.01	A.12 (17/09/2008)	12/07/2012	2 - 4-SB-AT01-029

2.5 POWER PLANT INSTRUMENT MARKINGS

The following table shows the power plant instrument markings and their color code significance.

Instrument ⇒	Tachometer [rpm]	Oil Temperature [°C]	Cylinder Head temperature [°C]	Oil Pressure [bar]
Red Line (minimum)	---	50	---	0.8
Green Arc (normal operating range)	535-2260	50-130	---	2.0 – 5.0
Yellow Arc (caution)	---	---	---	0.8 – 2.0 5.0 – 7.0
Red Line (maximum)	2260	130	120	7.0

<i>Document No.:</i>	<i>Issue:</i>	<i>Supersedes Issue:</i>	<i>Date:</i>	<i>Page:</i>
FM-AT01-1010-100E	B.01	A.12 (17/09/2008)	12/07/2012	2 - 5-SB-AT01-029