

WARNING

To have a very good affidability of every engine, is important to do a few of simple operations of maintenance on it.

One rule (often not observed by users) is a good preheating before flying.

This is very important, specially in engines that doesn't have a water pump to have a coolant circulation.

The Sky engines 100, is an engine that hasn't a water pump. The choice of this solution was made to have less weight, less losses of power and a simplified maintenance. All the system was designed to adopt this kind of coolant system.

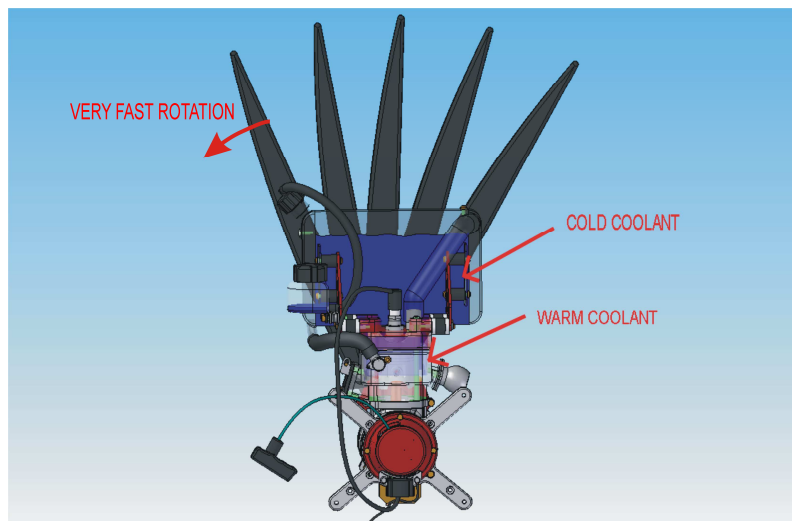
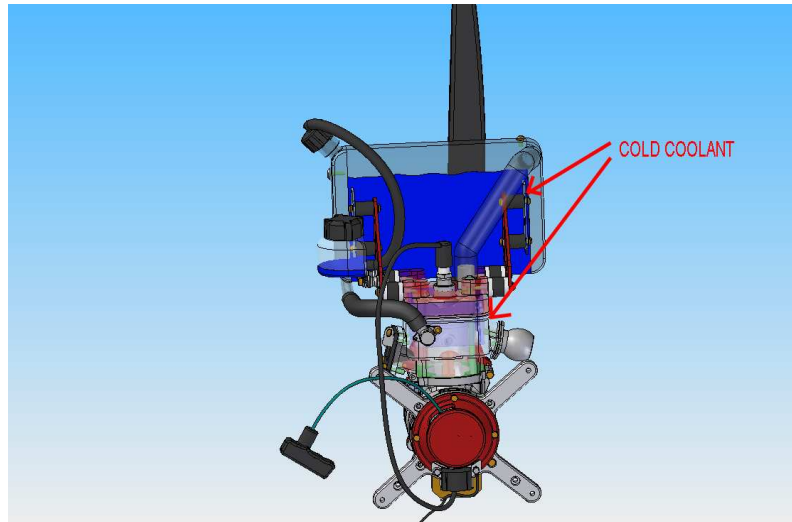
The only precautions to be sure of a very long life of your engine, is a correct preheating of it and to adopt a good synthetic oil in gasoline.

Here there is the explanation to correctly prepare the engine to fly (it is very simple and request a very little time...your engine will thank you).

When you start the engine, it must rotate at low RPM (3000 – 4500)(at ¼ of gas with not rotating propeller) by little taps of gas for a few of minutes (5 -10) on the ground!!!!

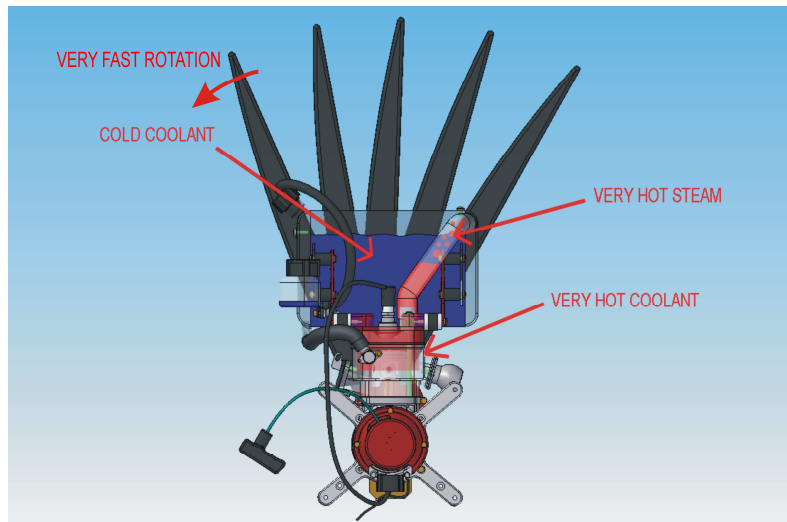
After that, you can feel by an hand if the temperature of radiator is good (about 40 – 50°C). When it is approximately at the specified temperature, you can beginning to fly without any other precaution.

If you don't preheat the engine, there can be some consequences due to the different dilatation of piston and cylinder and bad lubrication. In pictures below, you can see what happens if you use the engine immediately at high RPM without preheating it.

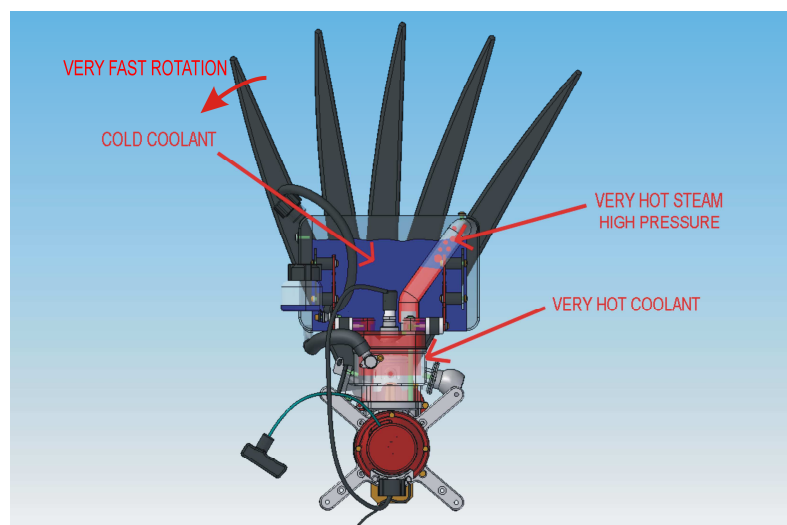


The fast rotation of the helix (high RPM as around 10000), cools the radiator and doesn't allow to coolant to circulate.

Temperature of cylinder increases but radiator remains cold.



In second time, cylinder becomes very hot but radiator remains cold yet.



At the end, the very hot steam, can't push cold water into radiator and coolant doesn't begin circulating.

Only after a long time, coolant in the radiator increases his temperature and it begins circulating working correctly.

In preheating engine as described on the top, helix rotates slowly and temperature of coolant increases uniformly and it begins circulating faster. This is the correct way...