

For this test, the cooling system was filled with 37C water and was run for 10 minutes to see how long it would take the cooling system to cool the water down to an acceptable temperature of 30C. The temperature of the water was taken every five seconds for the first minute then every minute following that using the inline temperature sensor.

Following the test, it appears that the cooling system was able to reach a temperature of 30C within two minutes of running and was able to reach a temperature of 32C within 40 seconds. Based on the logarithmic shape of the temperature graph, it is anticipated that the cooling system will be able to be more effective and quickly at higher initial temperatures.

Coolant Temperature vs. Time

