

COOLING SYSTEM

I C ENGINE COOLING

enturion

around 2300-2500°C. This is a very high temperature and may result into burning of oil film between the moving parts and may result into seizing or welding of the same.

- So, this temperature must be reduced to about 150-200°C at which the engine will work most efficiently.
- Too much cooling is also not desirable since it reduces the thermal efficiency.
- So, the object of cooling system is to keep the engine running at its most efficient operating temperature.

Purpose of cooling

To maintain optimum temperature of engine for efficient operation under all conditions.

To dissipate surplus heat for protection of engine components like cylinder, cylinder head, pistons, piston rings and valves.

To maintain the lubricating properties of oil inside the engine cylinder for normal functioning of the engine.





AIR COOLING SYSTEM



Centurion UNIVERSITY Compared acket or hopper method Thermo siphon system Forced circulation method



Thermo Siphon System





Components of Water Cooling

System

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Figure 5.4 : Water Cooling System using Thermostat Valve

