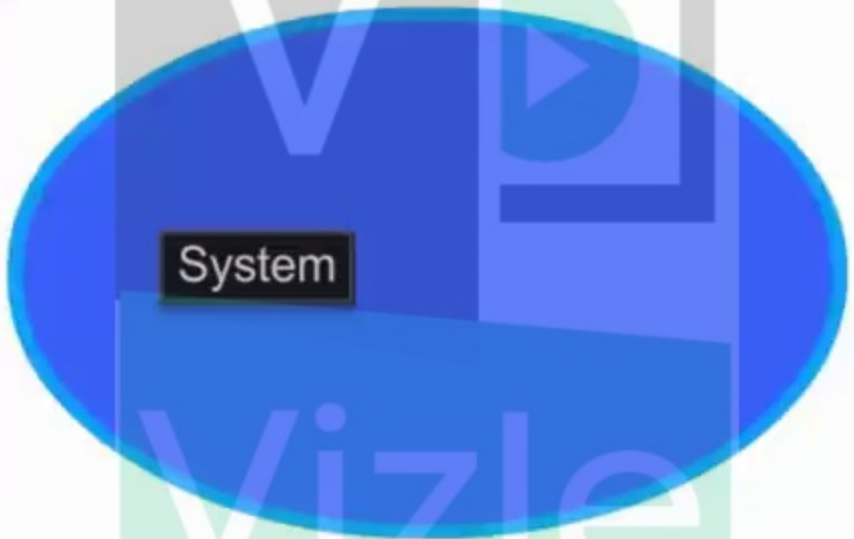




Surroundings



System

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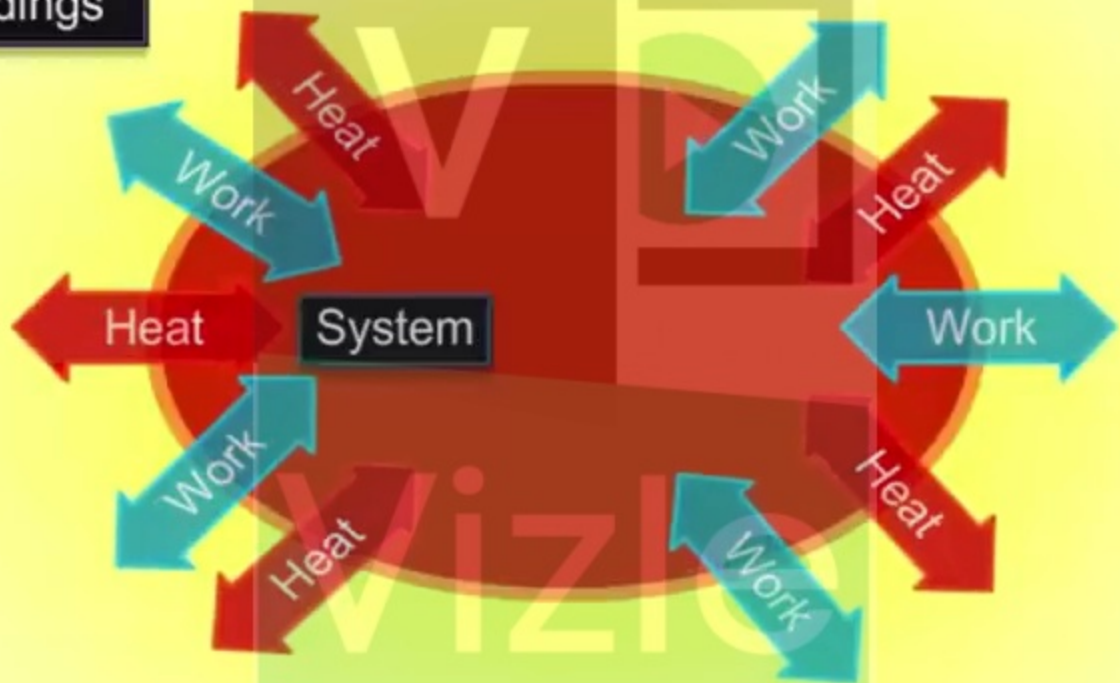
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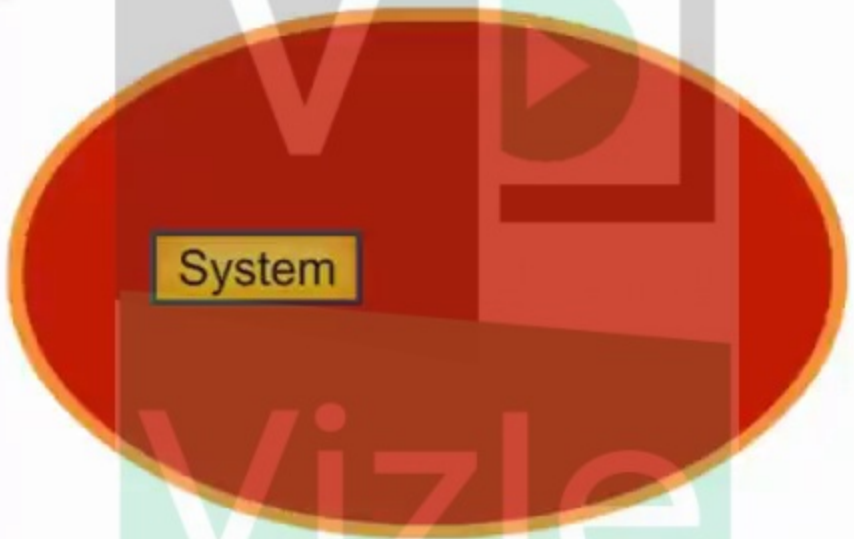
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Surroundings





Surroundings



System

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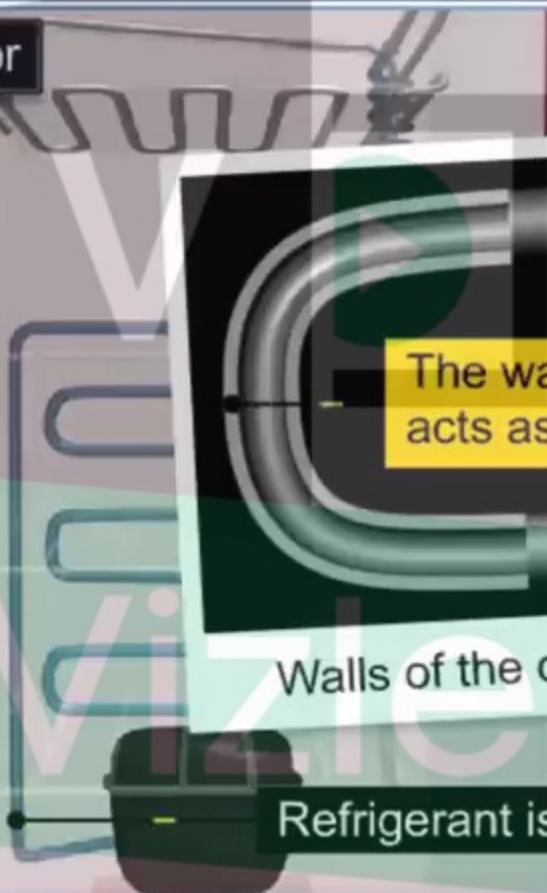


Gas in a closed container

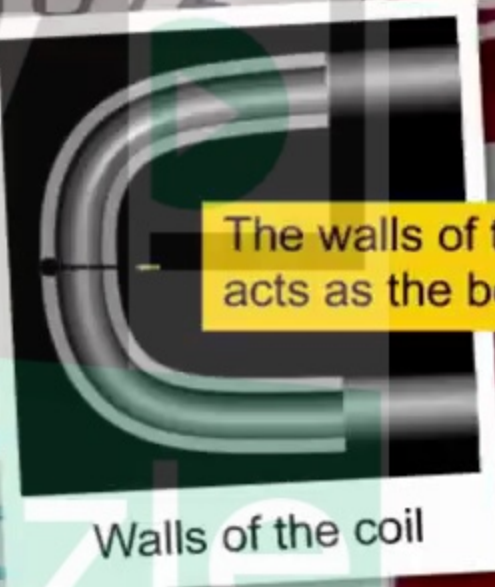


Gas is the system

Refrigerator



The walls of the coil acts as the boundary.



Walls of the coil

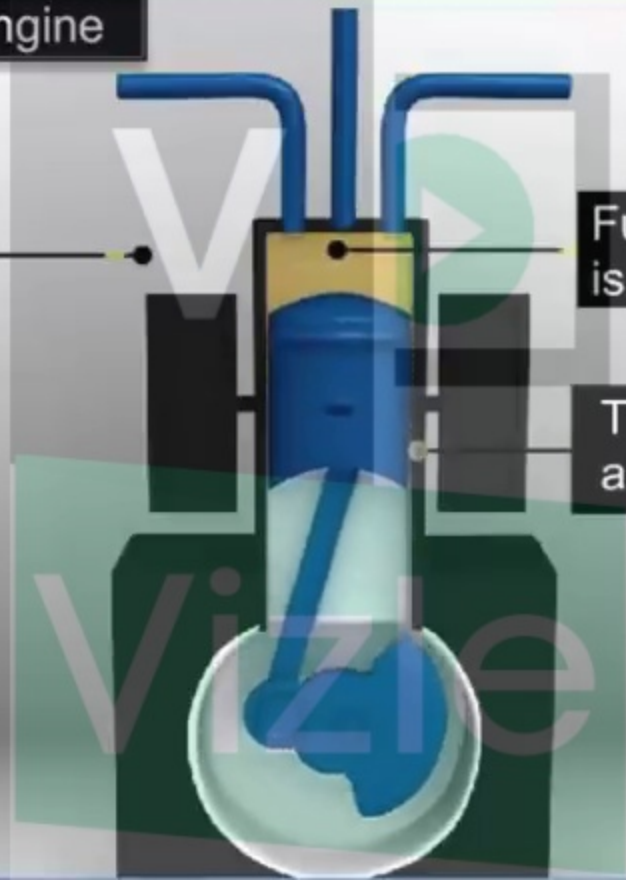
Refrigerant is the system

# Diesel Engine

Environment acts as surroundings.

Fuel inside an engine is the system.

The walls of the engine are the boundary.



The state of a thermodynamic system is identified by its macroscopic variables

Mass

Vizle



## Gas in a closed container

 $P_1, V_1, T_1$

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