## Heat Engine

Qc < 0 wasted heat leaves the system

Cold resevoir with temperature Tc

W>0
engine does
work to the
surroundinge

QH OH > 0

heat is put
into the system

Hot resevoir with temperature TH

## Refrigerators

Qc > 0 Heat is removed from the cold region and enter the system Cold reservoir with temperature To

W>0 surroundings do work to the system QH > 0 Heat leaves the system as part of the cooling process Hot resevoir with temperature TH