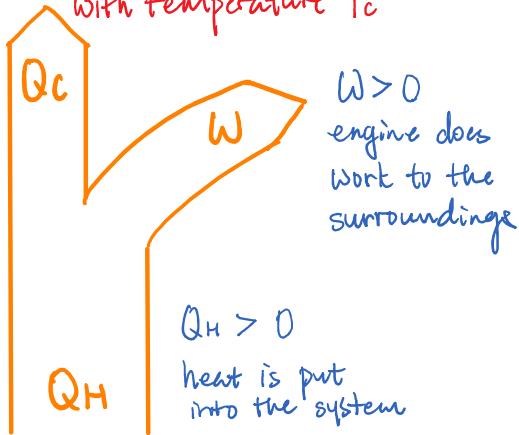


Heat Engine

$Q_c < 0$ wasted heat
leaves the system

Cold reservoir
with temperature T_c



$W > 0$
engine does
work to the
surroundings

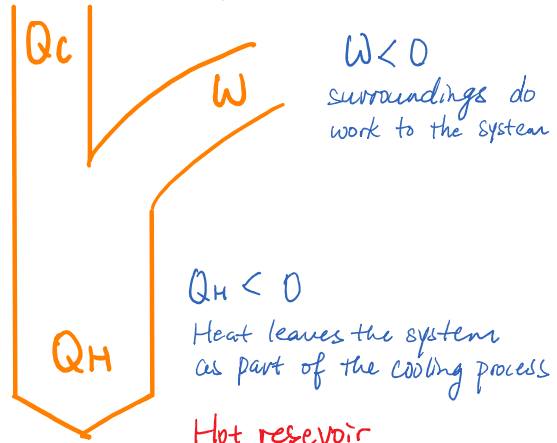
$Q_H > 0$
heat is put
into the system

Hot reservoir
with temperature T_H

Refrigerators

$Q_c > 0$ Heat is removed from
the cold region and
enter the system

Cold reservoir
with temperature T_c



$W < 0$
surroundings do
work to the system

$Q_H < 0$
Heat leaves the system
as part of the cooling process

Hot reservoir
with temperature T_H