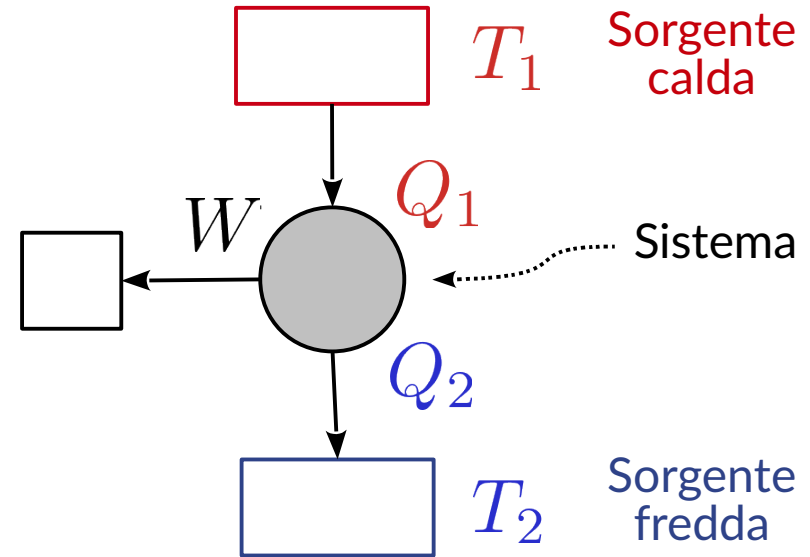
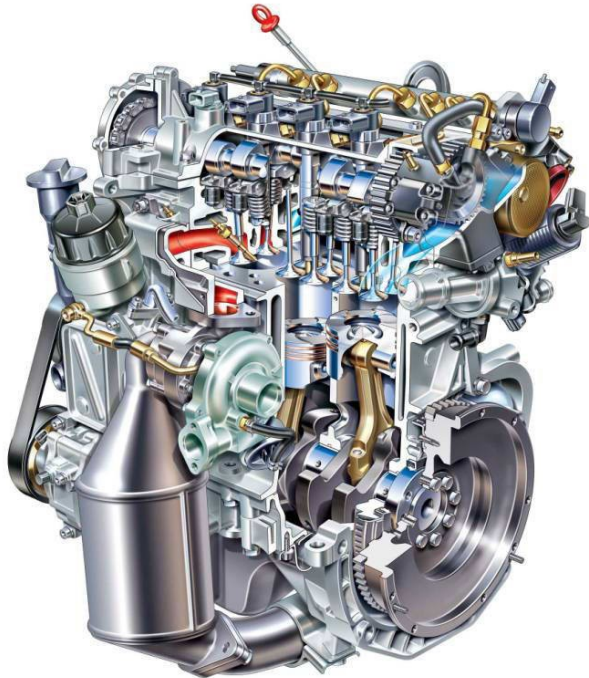


Macchine termiche: motori

Motore a vapore



Motore a combustione



Efficacia:

$$e = \frac{-W}{Q_1} \leq e^{(\text{rev})} = 1 - \frac{T_2}{T_1}$$

Macchine termiche: frigoriferi

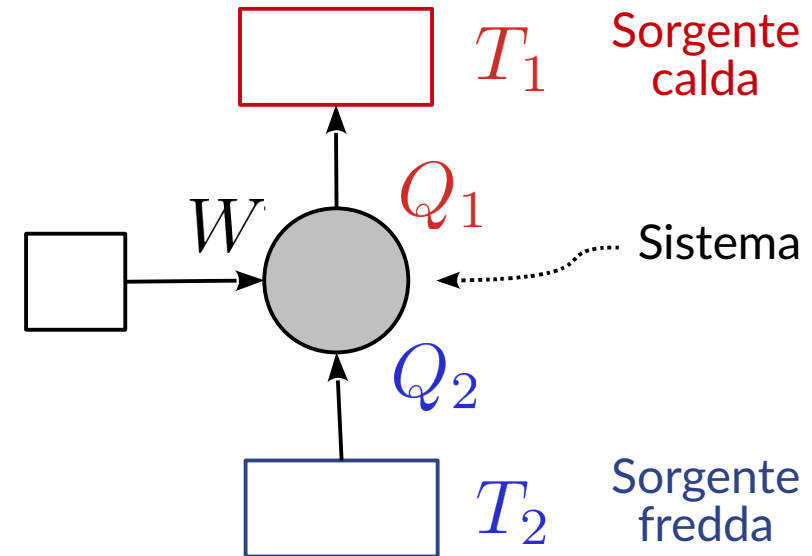
Schema:



Climatizzatore



Frigo



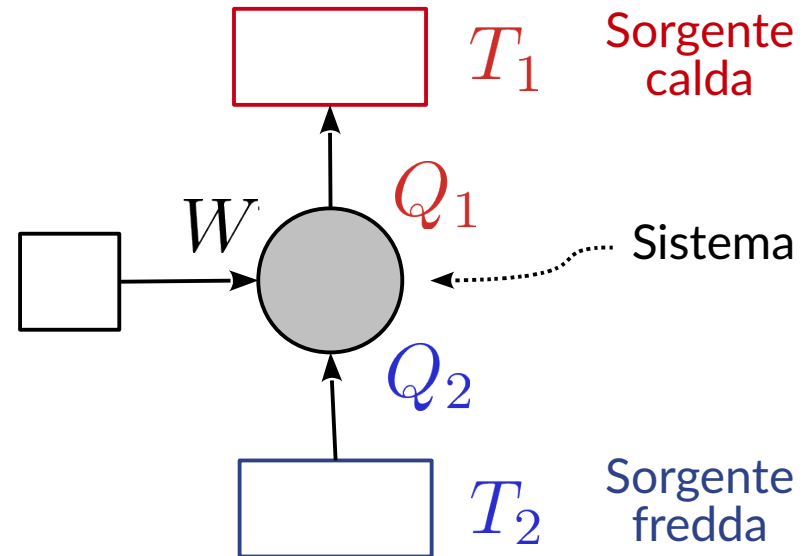
Efficacia:

$$e = \frac{Q_2}{W} \leq e^{(\text{rev})} = \frac{1}{\frac{T_1}{T_2} - 1}$$

Macchine termiche: pompe di calore

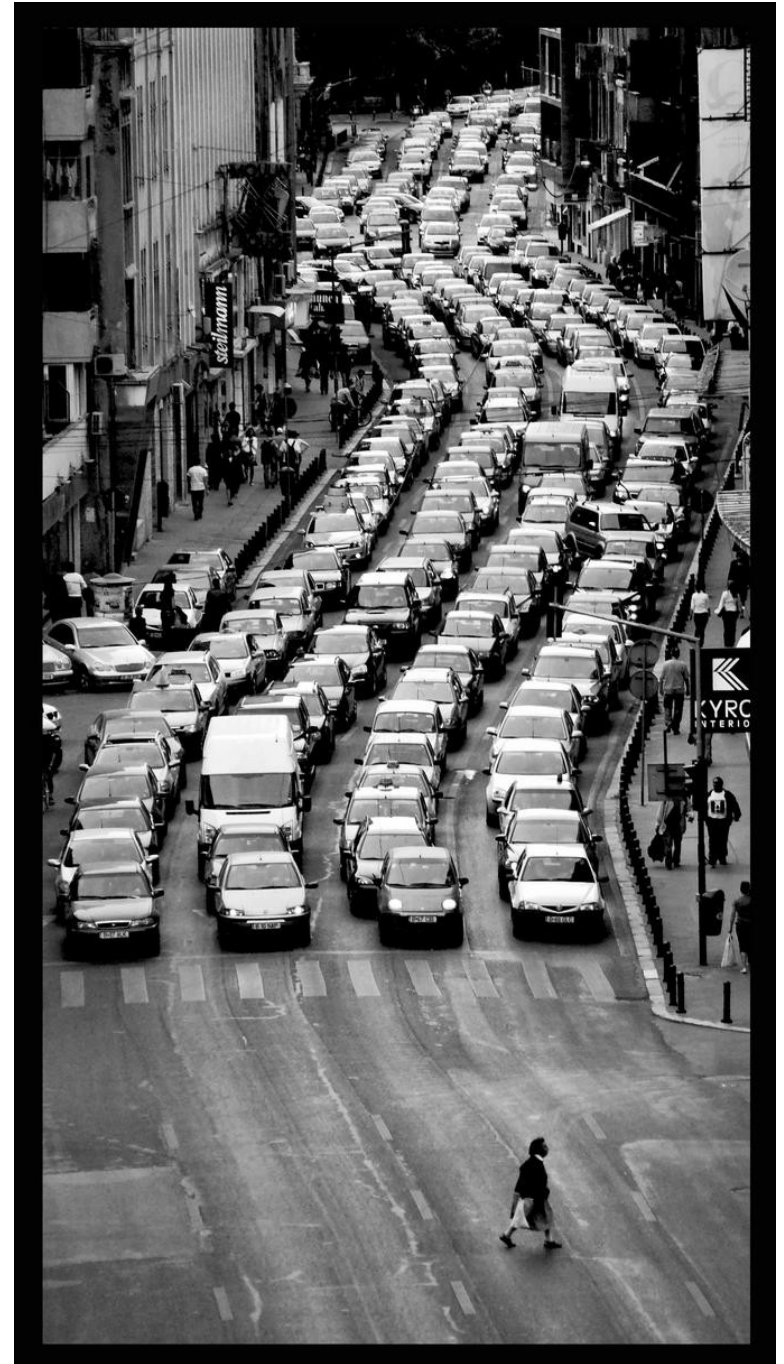
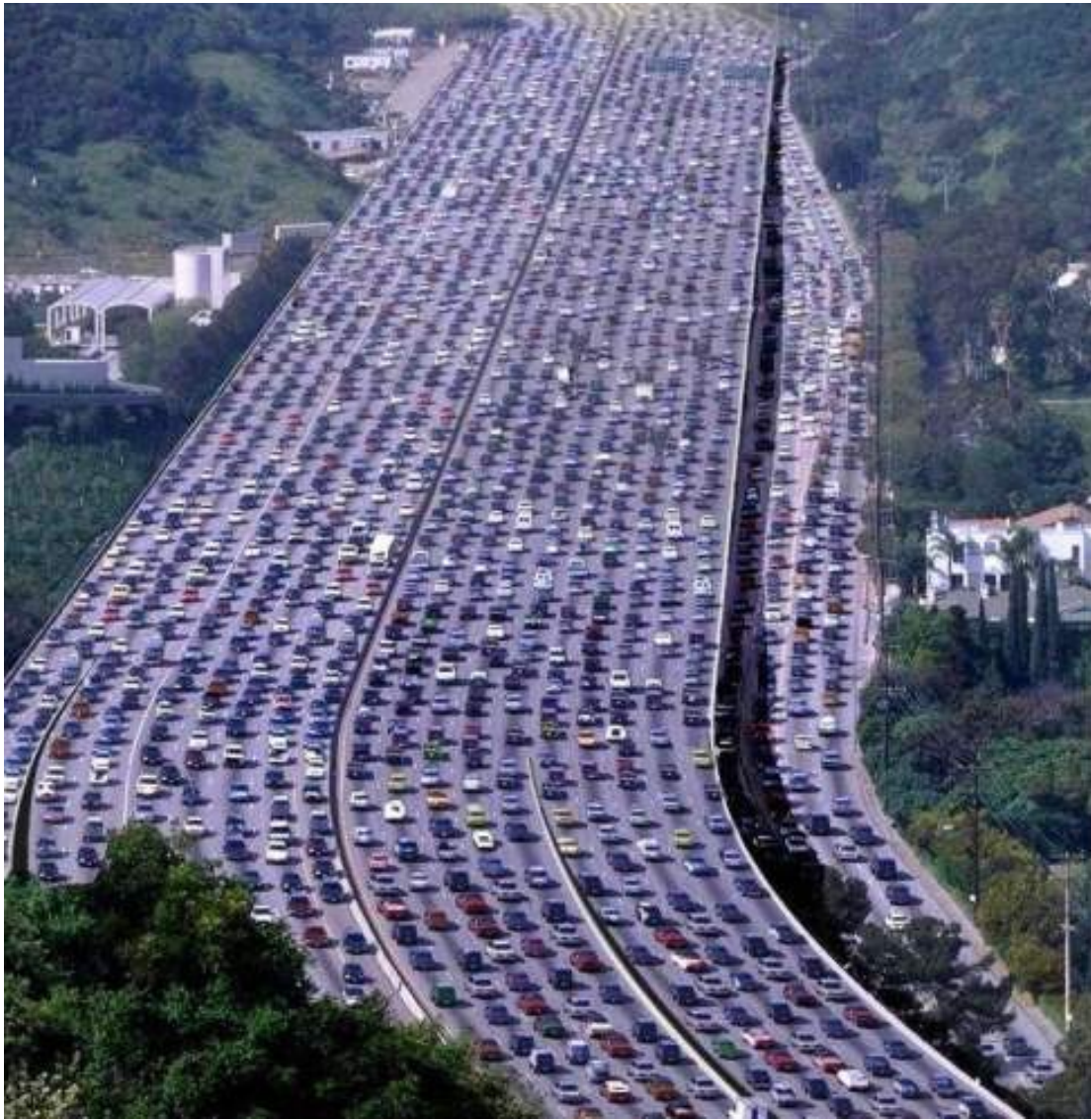
Schema:

Pompa di calore



Efficacia:

$$e = -\frac{Q_1}{W} \leq e^{(\text{rev})} = \frac{1}{1 - \frac{T_2}{T_1}}$$







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