مل نک Q = 100+W Q=W >0 macchina termica co macchina frigorifera Machina fermica Macchina

Rendimento
$$M = \frac{W}{Q_{ASS}}$$

$$M = \frac{W}{Q_{ASS}} = \frac{Q_{ASS} + Q_{CED}}{Q_{ASS}} = 1 + \frac{Q_{CED}}{Q_{ASS}} = 1 - \frac{Q_{CED}}{Q_{ASS}}$$

$$M = \frac{W}{Q_{ASS}} = \frac{Q_{ASS}}{Q_{ASS}} = 1 + \frac{Q_{CED}}{Q_{ASS}} = 1 - \frac{Q_{CED}}{Q_{ASS}} = 1 + \frac{Q_{CED}}{Q_{ASS$$

Macchine di Carnot (ciclo di Carnot)

To the service of the

P A B T2
C T1
(T1<T2)

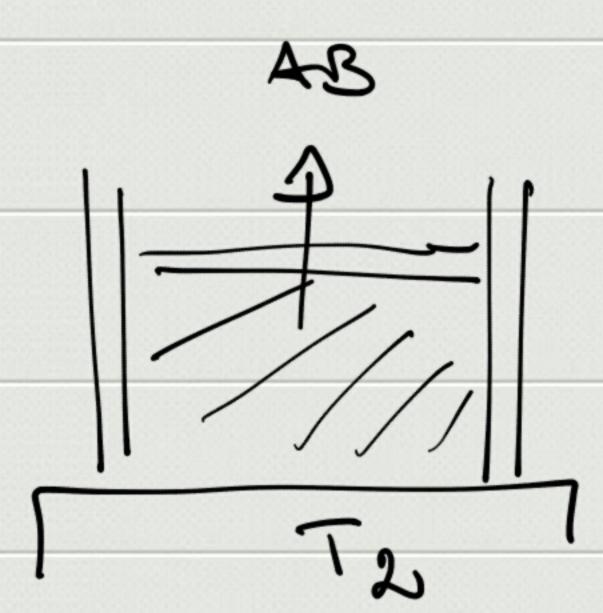
AB: isst. uv. (esp.)

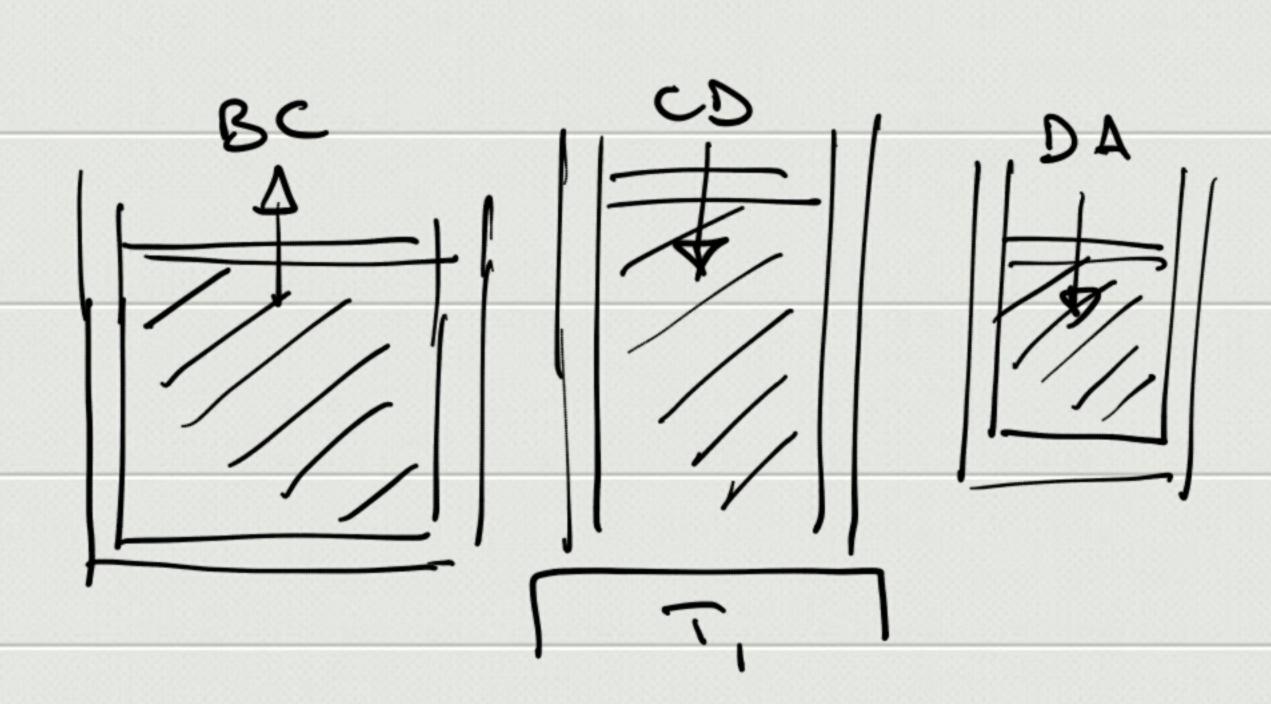
Bc: adido. ru (esp.)

cD: isst. m. (compr.)

DA: adido. Uv. (compr.)

M = ?





4B: DU28=0 Q28=W28= mRT2 lu \frac{18}{VA} > 0

BC: QBC=0 WBC=-DUBC=-MCV(TI-TZ)>0 $TV^{r-1} = cost \implies T_2V_B^{r-1} = T_1V_C^{r-1}$

DA:
$$Q_{DA} = 0$$
 $W_{DA} = -MCW(T_2 - T_1) < 0$
 $T_1 V_D^{T-1} = T_2 V_A^{T-1}$

$$\frac{\tau_{2}V_{8}^{\gamma-1}}{\tau_{2}V_{A}^{\gamma-1}} = \frac{\tau_{L}V_{c}^{\gamma-1}}{\tau_{2}V_{A}^{\gamma-1}} \Rightarrow \left(\frac{V_{8}}{V_{A}}\right)^{\gamma-1} = \left(\frac{V_{c}}{V_{a}}\right)^{\gamma-1}$$

$$\Rightarrow \frac{V_B}{V_A} = \frac{V_C}{V_D} = \left(\frac{V_A}{V_C}\right)^{-1}$$

$$\Rightarrow M = 1 + \frac{T_1 \ln \left(\frac{V_0}{V_c}\right)}{T_2 \ln \left(\frac{V_0}{V_c}\right)^{-1}} = 1 - \frac{T_1 \ln \left(\frac{V_0}{V_c}\right)}{T_2 \ln \left(\frac{V_0}{V_c}\right)^{-1}}$$

$$\Rightarrow M = 1 - \frac{T_2}{T_2}$$

$$M = 1 - \frac{|Q_c|}{Q_A} = 1 - \frac{T_L}{T_2} \Rightarrow \frac{|Q_c|}{Q_A} = \frac{T_L}{T_2}$$

Tarti
AQCCO
Eliciense
$$S = \frac{Q_A}{|W|}$$

AQARO

$$Q_{CD} = NURT, lu \frac{V_C}{V_D} > 0$$

$$Q_{BA} = NURT, lu \frac{V_A}{V_B} < 0$$

$$Q_{BA} = NURT, lu \frac{V_A}{V_B} < 0$$

$$S = \frac{QA}{|QA + QC|} = \frac{prRT_1 ln \frac{Ve}{Vo}}{|prRT_2 ln \frac{Va}{Ve}|} = \frac{TL}{|T_1 - T_2|} = \frac{TL}{|T_2 - TL|}$$