Exercício 4.121

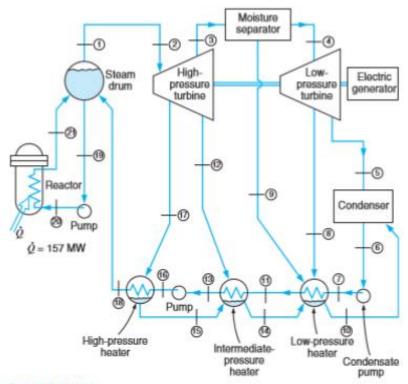


FIGURE P4.121

REG. PERM

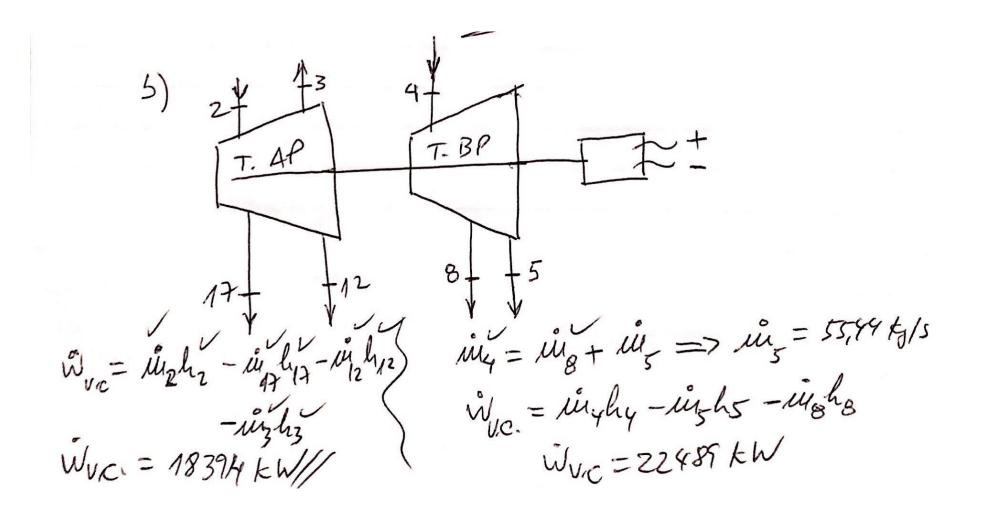
a) SEPARADOR

w >0

MASSA

ENERGIA

 $\chi_{4} = 0.9755$ CS Digitalizada com CamSeanner



Exercício 4.125

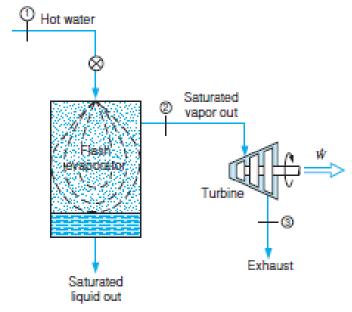
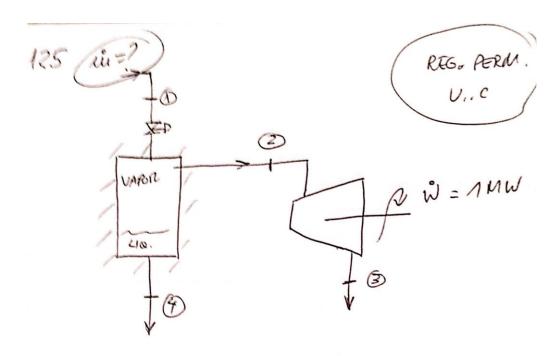


FIGURE P4.125



CS Digitalizada com CamScanner

h=604,74 x7/5

No evaporador:

Exercício 4.153

4.153 An insulated spring-loaded piston/cylinder device, shown in Fig. P4.153, is connected to an air line flowing air at 600 kPa and 700 K by a valve. Initially, the cylinder is empty and the spring force is zero. The valve is then opened until the cylinder pressure reaches 300 kPa. Noting that u₂ = u_{line} + C_V(T₂ - T_{line}) and h_{line} - u_{line} = RT_{line}, find an expression for T₂ as a function of P₂, P₀, and T_{line}. With P₀ = 100 kPa, find T₂.

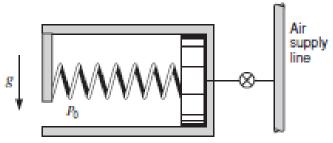
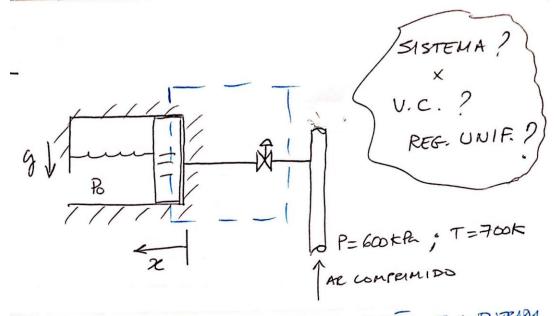


FIGURE P4.153



.C. -> MASSA DE AR ENTRE O PISTÃO E A ENTRADAL

DA VALVULA

-> RESILUE UNIFSRME? HIPOTETE FUNDAM. 9)

MASSA; M2 - M1 = Me (1)

ENERGIA: $M_2M_2 - M_1M_1 = M_0 h_0 - \int PdV$ (2)
Digitalizada com CamScánner

-> RESIDUE UNIFORME? HIPOTESE FUNDAM. 99 MASSA; $M_2 - M_1 = Me$ (1)

ENERGIA: $M_2 M_2 - M_1 M_1 = Me he - SPAV$ (2) $M_2 = Me$ (1) $M_2 M_2 = M_2 he - SPAV$ (21) mas $\int_{1}^{2} PdV = \frac{1}{2} (P_1 + P_2)(U_2 - U_1)$ S Digitalizada com CamScanner

Pressors ma frontema

Sabernos que $P_1 = P_0$, $V_1 = 0$, $\frac{9.153}{2}$ 2/2 entais $\int_{1}^{2} PdV = \int_{1}^{2} \left(P_2 + P_0\right) V_2$

eu (2'):

 $\mu_z \mu_z = \mu_z h_e - \frac{1}{2} (\rho_z + \rho_b) v_z$ CS Digitalizada com CamScafaner

M₂
$$M_2 = M_2$$
 he $-\frac{1}{2}(P_2 + P_6)V_2$ (2°)

HIPOTESE: An Compinendo \rightarrow GAS REPRETTO

$$pU = RT (4a) = Sh = Gp ST (4b)$$

$$SM = Gp ST (4e)$$

$$SM = Gp ST$$