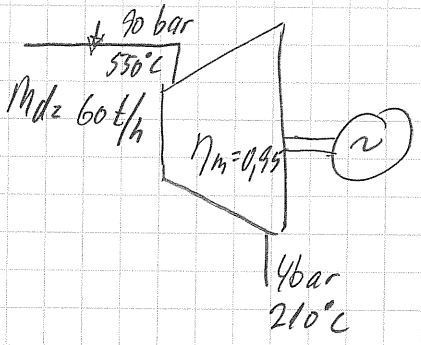
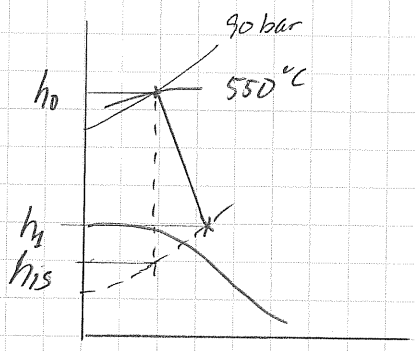


$P_{HL} = 9570$ kW



1) $P_i = \dot{m}_d \cdot (h_0 - h_1) = \frac{60\,000 \cdot (3509{,}8 - 2881{,}4)}{3600} = \underline{10473 \text{ kW}}$

2) a) $\eta_{iis} = \frac{(h_0 - h_1)}{(h_0 - h_{1s})} = \frac{(3509{,}8 - 2881{,}4)}{(3509{,}8 - 2707)} = \underline{0{,}783}$

b) $\eta_G = \frac{P_{HL}}{P_i \cdot \eta_m} = \frac{9570}{10473 \cdot 0{,}95} = \underline{0{,}962}$