

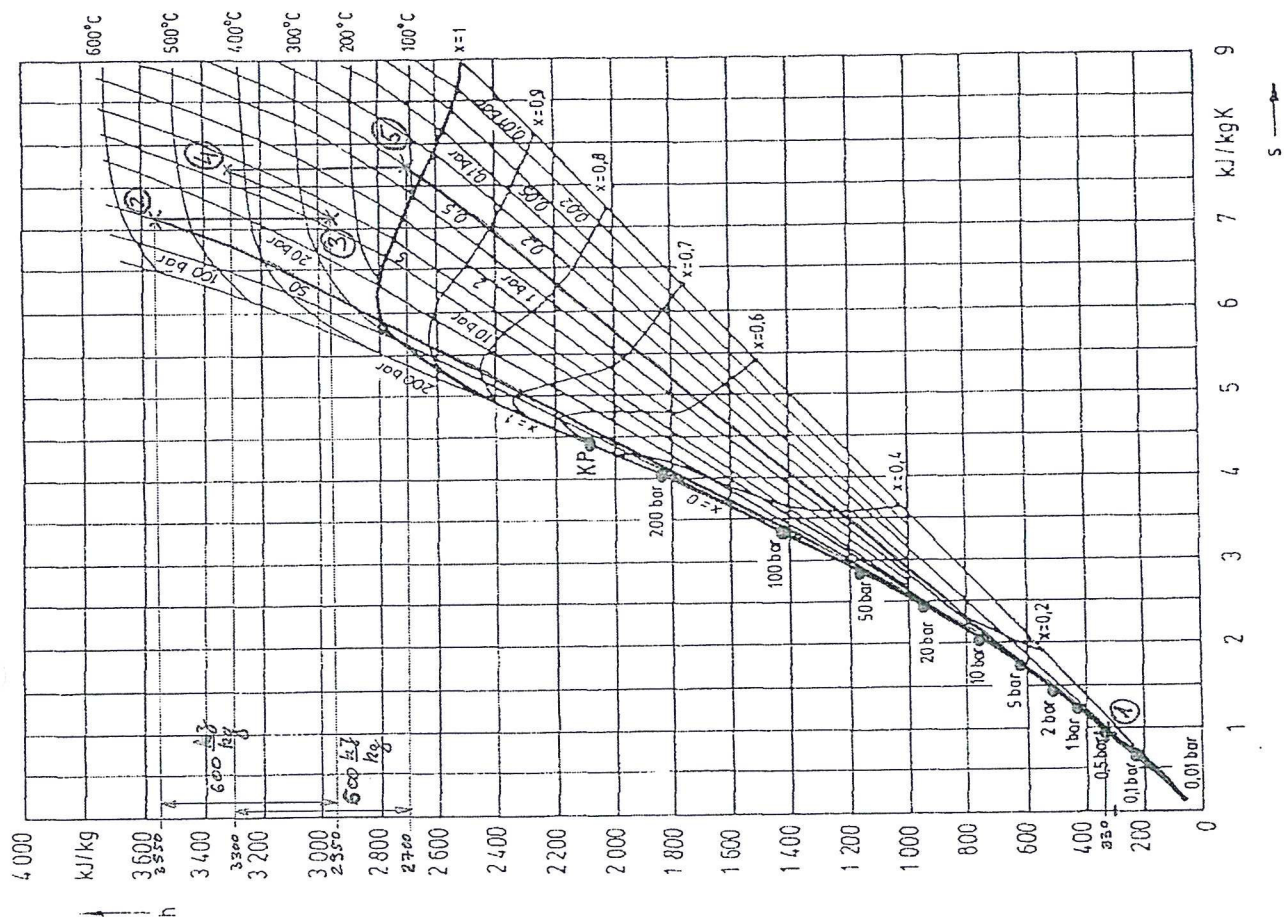
$$T_{\text{aus}} = (273 + 12) \text{ K} + \frac{550 \text{ MW} \left(\frac{1}{0,3364} - 1 \right)}{41,2 \frac{\text{kJ}}{\text{kg} \cdot \text{K}} \cdot 9253,26 \frac{\text{kg}}{\text{s}}}$$

$$= 285 \text{ K} + \frac{1086417,7 \text{ kW}}{38889,9 \frac{\text{kJ}}{\text{kg}}} \quad K = 312,9 \text{ K} = \underline{\underline{39,9^\circ \text{C}}}$$

e)

$$\dot{m} = \frac{\dot{P}_T}{\Delta h_H + \Delta h_N} = \frac{550 \text{ MW}}{1,2 \frac{\text{MJ}}{\text{kg}}} = 4583 \frac{\text{kg}}{\text{s}} = 27500 \frac{\text{kg}}{\text{min}}$$

$$\approx \underline{\underline{27500 \frac{\text{l}}{\text{min}}}}$$



h,s Diagramm von Wasserdampf