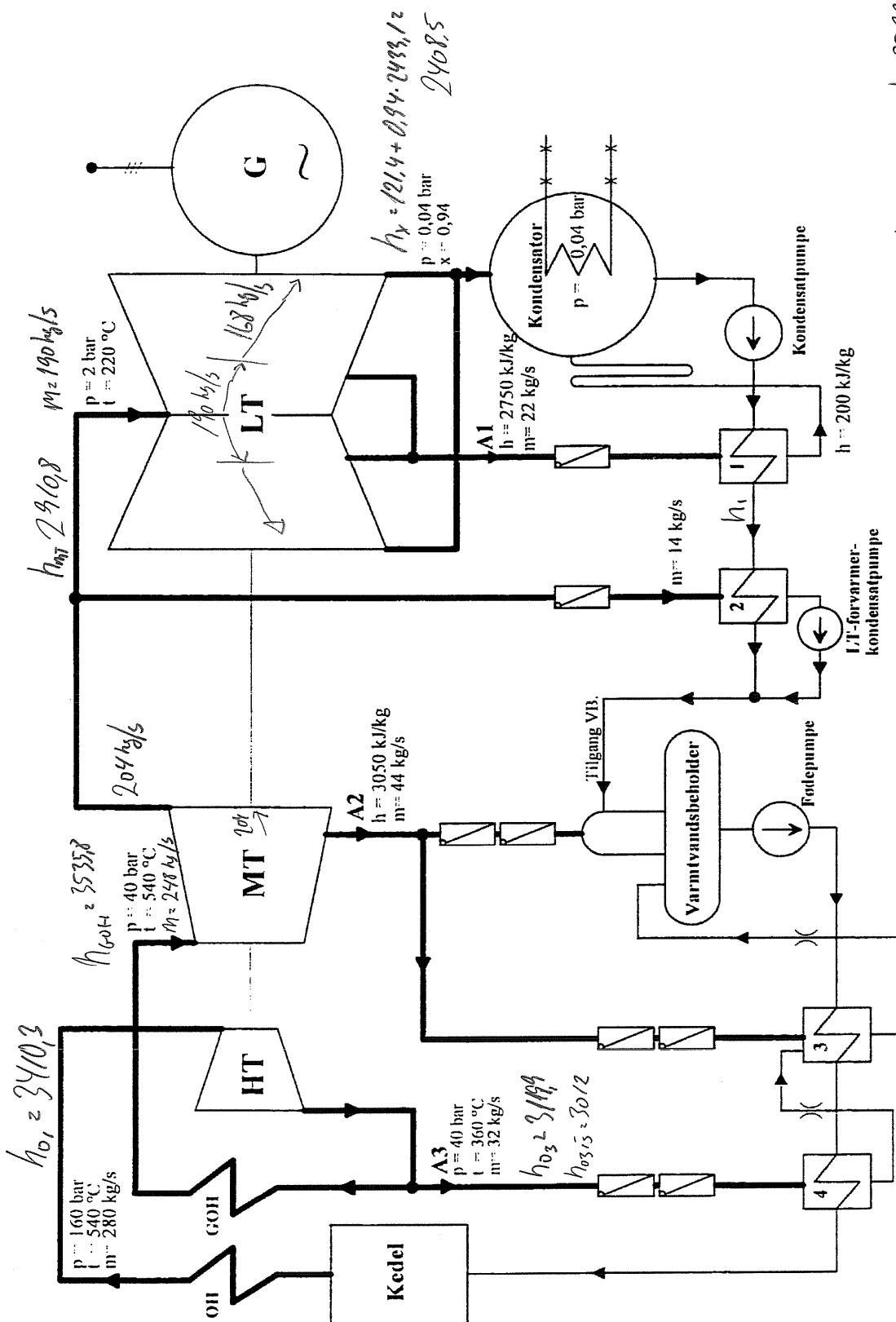


42.



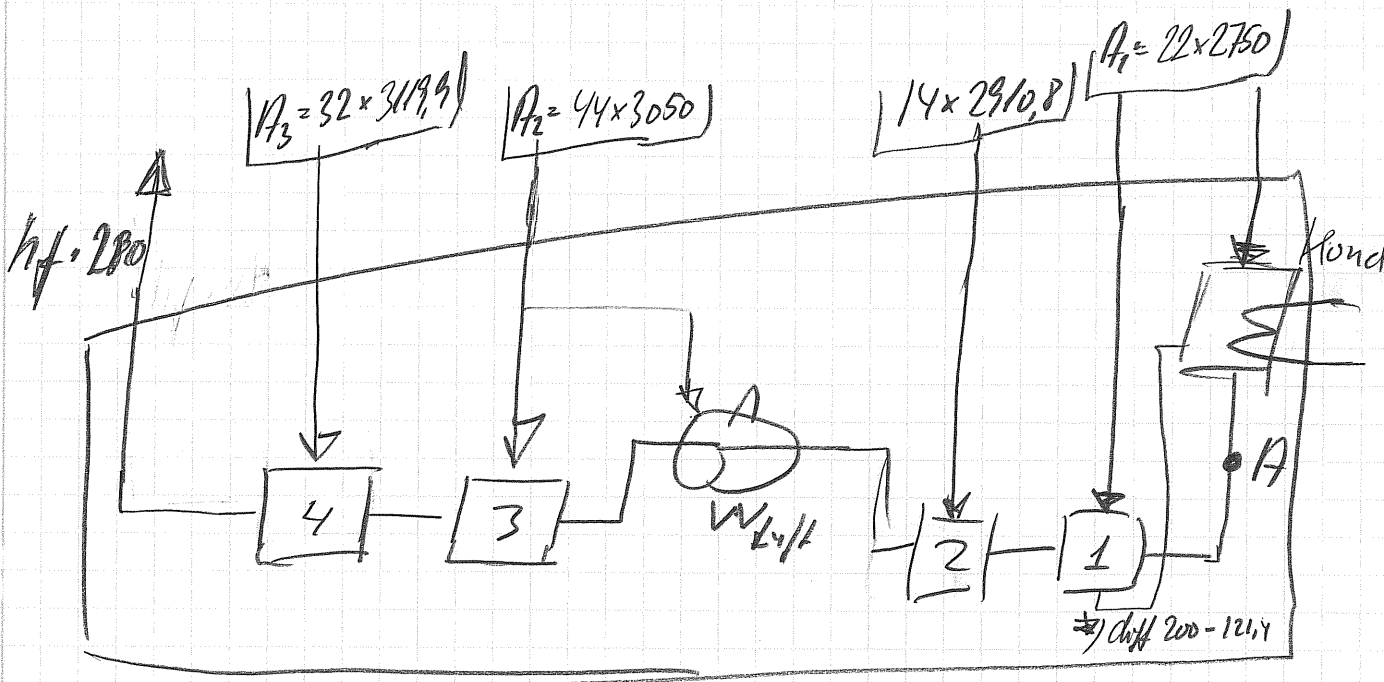
42.2

$P_{HT} = 280 \cdot (34103 - 31199) = 81312 \cdot 0,96 \cdot 0,98 = 76498 \text{ kW}$
 $P_{MT} = 248 \cdot (35358 - 3050) + 204 \cdot (3050 - 29108) = 148875 \cdot 0,96 \cdot 0,98 = 140062 \text{ kW}$
 $P_{LT} = 190 \cdot (29108 - 2730) + 168 \cdot (2750 - 24085) = 87924 \cdot 0,96 \cdot 0,98 = 82719 \text{ kW}$
 $P_c = 299279 \text{ kW}$

Q2.3

$$280 \cdot h_f = \underbrace{190 \cdot 121,4 + 22 \cdot (2750 - 200) + 14 \cdot 2910,8 + 44 \cdot 3050 + 32 \cdot 3119,9}_{\rightarrow}$$

$$h_f = \frac{\quad}{280} = \underline{\underline{1264,1 \text{ kJ/kg}}}$$



$A = \text{Kondt } 168 + 22 \text{ kg/s } \bar{a} \text{ } 121,4 \text{ kJ/kg}$

$\star) \text{ diff for } A_1 \text{ } 200 \text{ kJ/kg} - 121,4 \text{ kJ/kg} \text{ sumus i kondensator}$

42.4

$$P_{\text{indfyr}} = \frac{M_d \cdot \lambda}{\eta_k}$$

$$P_{\text{indf.}} = \frac{280 \cdot (3410,3 - 1264,1) + 248 \cdot (3535,8 - 3119,9)}{0,91}$$

$$P_{\text{indfyr}} = 773713 \text{ kW} \sim 773,7 \text{ MW}$$

$$N_y h_{01} = 3382,7 \text{ kg/kg}$$

$$h_{02} = 3490,4 \text{ kg/kg}$$

$$h_{04} N_y = 3090 \text{ kg/kg}$$

$$\eta_k = \frac{280(3382,7 - 1264,1) + 248 \cdot (3490,4 - 3094)}{773713} = \underline{\underline{0,89}}$$