



$$h_1 = 989,6 \text{ kJ/kg}$$

$$\dot{m}_1 = 1 \text{ kg/s (ipotesi)}$$

$$h_{2l} = 639,9 \text{ kJ/kg}$$

$$h_{2v} = 2766,8 \text{ kJ/kg}$$

$$S_{2l} = 1,8596 \text{ kJ/kgK}$$

$$S_{35} = S_{2v}$$

$$x = \frac{h_2 - h_{2l}}{h_{2v} - h_{2l}} = \frac{989,6 - 639,9}{2766,8 - 639,9} = 0,166$$

$$\dot{m}_{2v} = 0,166 \text{ kg/s}$$

$$\dot{m}_{2l} = 1 - 0,166 = 0,834 \text{ kg/s}$$

$$\eta_T = 0,86 = \frac{h_{2v} - h_3}{h_{2v} - h_{35}}$$



$$S_{35} = 6,8161$$

$$S_{3l} = 0,6689$$

$$h_{3l} = 191,71$$

$$S_{3v} = 8,1680$$

$$h_{3v} = 2583,9$$

$$\frac{S_{3v} - S_{3l}}{S_{35} - S_{3l}} = \frac{h_{3v} - h_{3l}}{h_{35} - h_{3l}}$$

$$h_{3s} = (h_{3v} - h_{3e}) \frac{S_{3v} - S_{3e}}{S_{3v} - S_{3l}} + h_{3e} = 2159$$

$$h_{2v} - h_3 = \eta (h_{2v} - h_{3s})$$

$$h_3 = h_{2v} - \eta (h_{2v} - h_{3s}) = 2253 \text{ kJ/kg}$$

$$l_T = h_{2v} - h_3 = 2746,8 - 2253 = 493,8 \text{ kJ/kg}$$

$$C_{SPVAP} = \frac{1 \text{ kg}}{493,8 \text{ kJ}} \cdot \frac{3600 \text{ s}}{\text{h}} = 7,3 \frac{\text{kg}}{\text{kWh}_{\text{mecc}}}$$

$\Rightarrow \frac{1}{m_0}$

$$7,92 \frac{\text{kg}}{\text{kWh}_{\text{mecc}}}$$

$$C_{SPACA} = \frac{C_{SPVAP}}{x} = \frac{7,92}{0,166} = 47,74 \frac{\text{kg}}{\text{kWh}}$$



