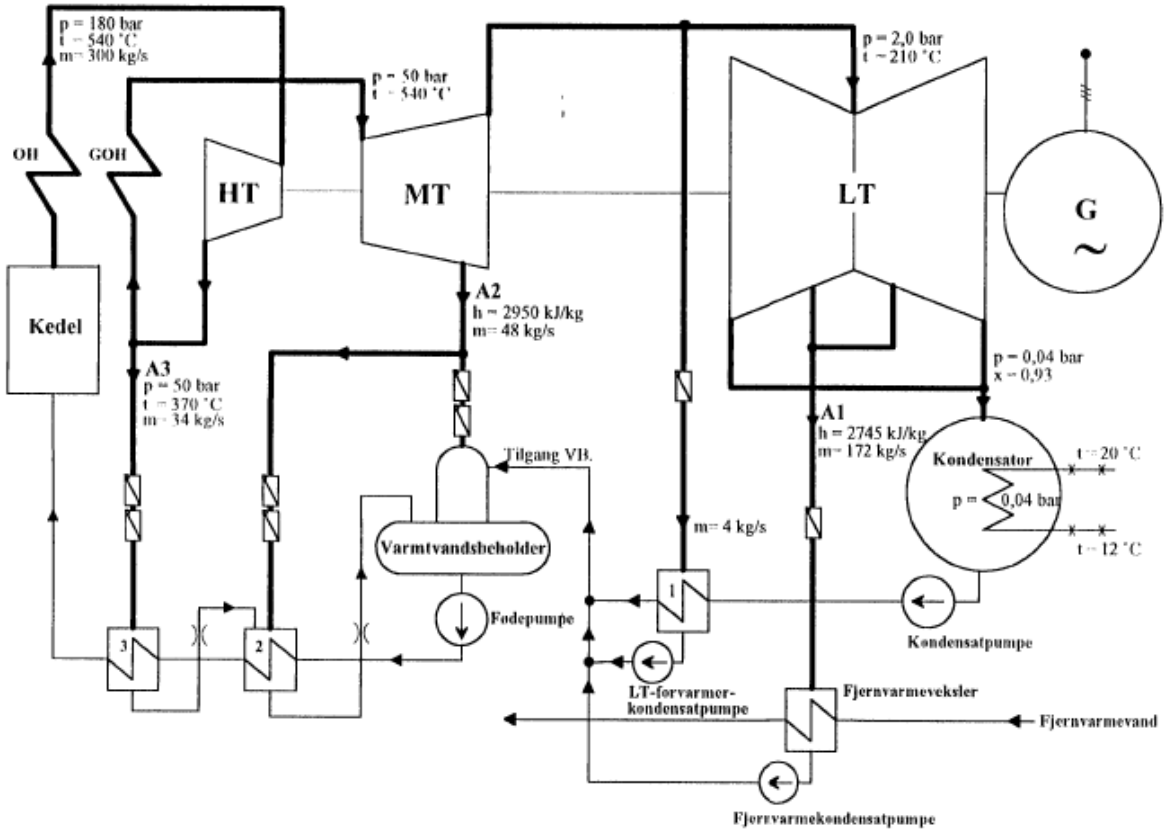
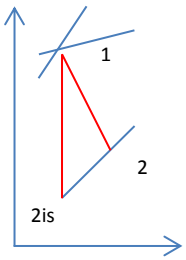


52.1 $\text{is} = \frac{h1-h2}{h1-h2is}$

$= \frac{3387,8-3123,4}{3387,8-3010}$



$= 0,69$

$52.2(md * (hx - h')) = mkø * c * (t1 - t2)$

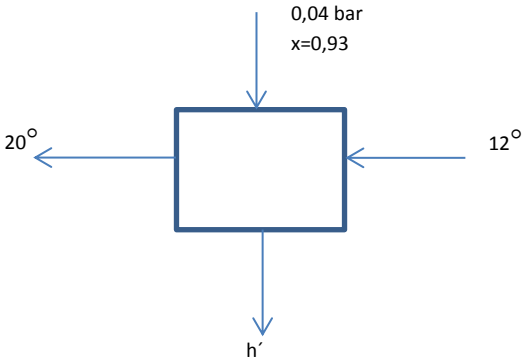
$hx = h' + (x * r)$

$= 121,4 + (0,93 * 2433,1)$

=2384,18 kj/kg

$md = 300 - 34 - 48 - 4 - 172$

Md=42 kg/s



$$mkø = (\frac{md * (hx - h')}{c * (t1 - t2)})$$

$$mkø = (\frac{42 * (2384{,}18 - 121{,}4)}{4{,}19 * (20 - 12)})$$

=10207 T/h

52.3

$$Pkl = (Piht + Pimt + Pilt) * eta\ m * eta\ g$$

$$Piht = md * delta\ h$$

$$Piht = 300 * (3387{,}8 - 3123{,}4)$$

$Piht$ =79320 kW

$$Pi\ mt = \big(md1 * (delta\ h1)\big) + ((md2 * (delta\ h2))$$

$$Pi\ mt = \big(266 * (3123{,}4 - 2950)\big) + (218 * (2950 - 2890{,}7))$$

$$Pi\ mt = 59052\ kW$$

$$Pi\ lt = \big(md1 * (delta\ h1)\big) + ((md2 * (delta\ h2))$$

$$Pi\ lt = \big(214 * (2890{,}7 - 2745)\big) + (42 * (2745 - 2384{,}18))$$

$Pi\ lt$ =46334

$$Pkl = (Piht + Pimt + Pilt) * eta\ m * eta\ g$$

$$Pkl = (79320 + 59052 + 46334) * 0{,}96 * 0{,}98$$

$$\underline{Pkl = 173771\ kW}$$

52.4 Ny Elproduktion

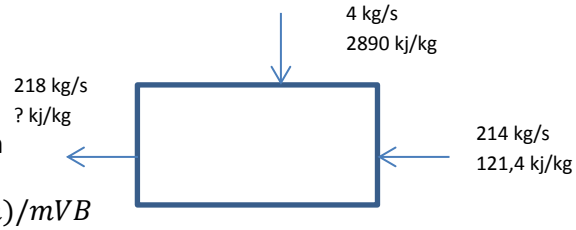
$$Pi\ lt = \big(md1 * (delta\ h1)\big)$$

$$Pi = 108395\ kw$$

Medfører ny

$$\underline{Pkl = 232159\ kW}$$

52.5



Temp tilgang VB

$hVB * mVB$ =hlt*mlt+hkon*mkon

$hVB = (hlt * mlt + hkon * mkon)/mVB$

$hVB = (2890{,}7 * 4 + 121{,}4 * 214)/218$

$\underline{hVB = 172{,}2\ kj/kg}$

$t = h/c$

$t = 172{,}2/4{,}19$

t=41°