

Let:

Gu = Amt. of heat Supplied at generator
temp. (Ta)

Gu = Amt. of heat rejected by absorbed
at room temp. (To)

Gc = Amt. of heat rejected at Conditional
cut Room temp. (To)

TE = evaporator temp. (K)

Ta Required I/P

Go GA

To = Ambient temp. (K)

Ta = Gunerator Temp. (K)

W.K.T.

From 1st Law of T.O.

Einput = Z Eout

$$\frac{Q_{G_1} + RE}{Q_{G_1}} = \frac{Q_{A} + Q_{C}}{Q_{G_1}} - \frac{Q_{G_1}}{Q_{G_1}} \times \frac{Q_{G_2}}{Q_{G_1}} \times \frac{Q_{G_1}}{Q_{G_2}} \times \frac{Q_{G_2}}{Q_{G_1}} \times \frac{Q_{G_2}}{Q_{G_2}} \times \frac{Q_{G_2$$