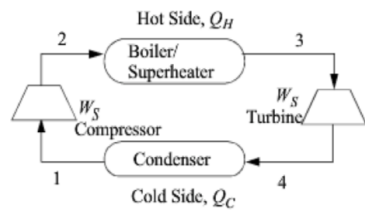


Stream	P (Mpa)	T (°C)	State	q	H (kJ/kg)	H _L (kJ/kg)	H _V (kJ/kg)	V (m ³ /kg)	V _L (m ³ /kg)	V _V (m ³ /kg)	S (kJ/kgK)	S _L (kJ/kgK)	S _V (kJ/kgK)	iso entropic
1	0.121	105	Liquid/Vapor	0.313	1140	440	2680	0.445	0.00105	1.42	3.22	1.36	7.3	
2	3.98	250	Saturated Liquid	0	1090			0.00125			2.79			
3	3.98	250	Saturated Vapor	1	2800			0.0501			6.07			
4	0.121	105	Saturated Vapor	1	2680			1.42			7.3			q=.648



		S kJ/kgK	
3-2		3.28	
4-3		1.23	
1-4		-4.08	
2-1		-0.43	
net		0	
H, kW			H, kJ/kg
570	3-2		1710
-40	4-3		-120
-513	1-4		-1540
15	2-1		45
	net		95

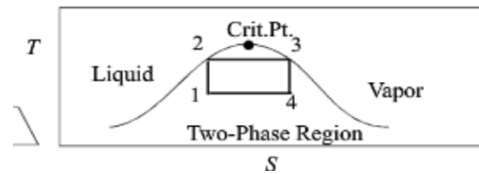
B/S (b)
Ws (a)

Compressor

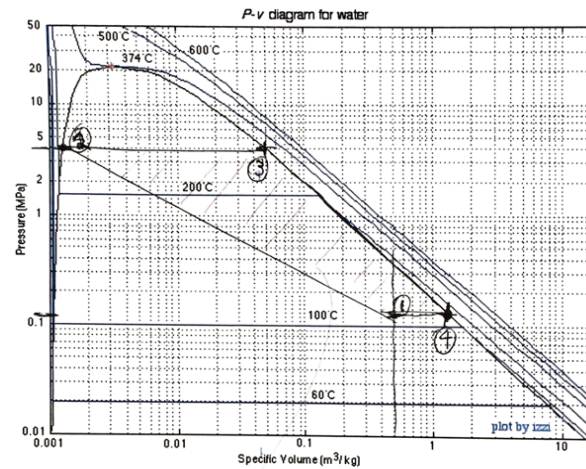
eff

0.044 This system
0.277 Ideal Carnot

(c)
(d)



(e)



Area, H_0 work done in a "cycle".
Work per kg for the system