

Chapter 10

VAPOR AND COMBINED POWER CYCLES

Carnot Vapor Cycle

10-1C Because excessive moisture in steam causes erosion on the turbine blades. The highest moisture content allowed is about 10%.

10-2C The Carnot cycle is not a realistic model for steam power plants because (1) limiting the heat transfer processes to two-phase systems to maintain isothermal conditions severely limits the maximum temperature that can be used in the cycle, (2) the turbine will have to handle steam with a high moisture content which causes erosion, and (3) it is not practical to design a compressor that will handle two phases.

10-3E A steady-flow Carnot engine with water as the working fluid operates at specified conditions. The thermal efficiency, the quality at the end of the heat rejection process, and the net work output are to be determined.

Assumptions 1 Steady operating conditions exist. 2 Kinetic and potential energy changes are negligible.

Analysis (a) We note that

$$T_H = T_{\text{sat}@180 \text{ psia}} = 373.1^\circ\text{F} = 833.1 \text{ R}$$

$$T_L = T_{\text{sat}@14.7 \text{ psia}} = 212.0^\circ\text{F} = 672.0 \text{ R}$$

and

$$\eta_{\text{th,C}} = 1 - \frac{T_L}{T_H} = 1 - \frac{672.0 \text{ R}}{833.1 \text{ R}} = \mathbf{19.3\%}$$

(b) Noting that $s_g = s_1 = s_f@180 \text{ psia} = 0.53274 \text{ Btu/lbm}\cdot\text{R}$,

$$x_2 = \frac{s_g - s_f}{s_{fg}} = \frac{0.53274 - 0.31215}{1.44441} = \mathbf{0.153}$$

(c) The enthalpies before and after the heat addition process are

$$h_1 = h_f@180 \text{ psia} = 346.14 \text{ Btu/lbm}$$

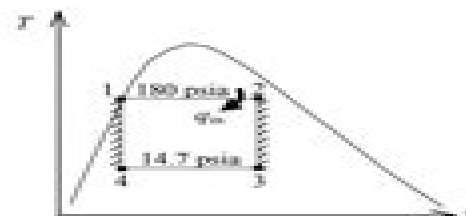
$$h_2 = h_f + x_2 h_{fg} = 346.14 + (0.90)(851.16) = 1112.2 \text{ Btu/lbm}$$

Thus,

$$q_{\text{in}} = h_2 - h_1 = 1112.2 - 346.14 = 766.0 \text{ Btu/lbm}$$

and,

$$w_{\text{net}} = \eta_{\text{th}} q_{\text{in}} = (0.1934)(766.0 \text{ Btu/lbm}) = \mathbf{148.1 \text{ Btu/lbm}}$$



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