

Solution: $W = -2384.378 \text{ BTU/min}$ $W = 56.235 \text{ hp}$. A thermodynamic steady flow system receives 4.56 kg per min of a fluid where $p_1 = 137.90 \text{ kPa}$, $v_1 = 0.0388 \text{ m}^3/\text{kg}$, $u_1 = 122 \text{ m/s}$, and $u_1 = 17 \text{ kJ/kg}$. The fluid leaves the system at a boundary where $p_2 = 551.6 \text{ kPa}$, $v_2 = 0.193 \text{ m}^3/\text{kg}$, $u_2 = 183 \text{ m/s}$ and $u_2 = 52.80 \text{ kJ/kg}$.

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Given: $U = -316.5 \text{ kJ}$ $k = 1.35$ $m = 2.268 \text{ kg}$ $T_1 = 204.4 + 273 = 477.4 \text{ K}$ $R = 430 \text{ J/kg.K}$ Solution: (a) $W_n = \int p dv$; constant volume $W_n = 0$ (b) $Q = U + W_n = -316.5 + 0$ $Q = -316.5 \text{ kJ}$ (c) i. $c_v = R/(k-1) = 430/(1.35-1)$ $c_v = 1228.57 \text{ J/kg.K} = 1.22857 \text{ kJ/kg.K}$ ii. finding for T_2 $Q = mc_v(T_2 - T_1) - 316.5 = (2.268)(1.22857)(T_2 - 477.4)$ $T_2 = 363.81 \text{ K}$ iii.

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