

A blower handles 1 kg/s of air at 20°C and consumes a power of 15 kW. The inlet and outlet velocities of air are 100 m/s and 150 m/s respectively. Find the exit air temperature, assuming adiabatic conditions. Take  $c_p$  of air as 1.005 kJ/kg-K.

$$\dot{m}_1 = \dot{m}_2 = \dot{m} = 1 \text{ kg/s}$$

$$t_1 = 20^\circ\text{C}$$

$$\dot{W}_2 = -15 \text{ kW}$$

$$V_1 = 100 \text{ m/s}$$

$$V_2 = 150 \text{ m/s}$$

$$t_2 = ?$$

$$Q = 0$$

$$c_p = 1.005 \text{ kJ/kg-K}$$

$$\dot{Q}_{gen} = \dot{m} c_p (t_2 - t_1)$$

$$\dot{Q}_{gen} = h_2 - h_1$$

$$h_1 + \frac{V_1^2}{2} + g z_1 + \frac{Q}{\dot{m}} = h_2 + \frac{V_2^2}{2} + g z_2 + \frac{\dot{W}_2}{\dot{m}}$$

$$h_1 + \frac{100^2}{2} + 9.81 z_1 + 0 = h_2 + \frac{150^2}{2} + 9.81 z_1 + \left( \frac{-15000}{1} \right)$$

$$h_2 - h_1 = \dot{Q}_{gen} = 8750 \text{ W}$$



# First Law Of Thermodynamics Problems Solutions

**Lauren Gardner**



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