



$$T_S = 100^\circ\text{C} \quad (p = p_0)$$

$$Q_D + Q_W = 0$$

$$Q_W = m_W c_W (T_{mi} - T_W)$$

$$Q_D = m_D c_D (T_S - T_D) - m_D \Gamma + m_D c_W (T_{mi} - T_S)$$

$$= -3.538 \cdot 10^3 \text{ J}$$

$$m_W c_W (T_{mi} - T_W) = -Q_D$$

$$\Rightarrow T_W = T_{mi} + \frac{Q_D}{m_W c_W} = 14.50^\circ\text{C}$$

$$\text{mit } T_D = 100^\circ\text{C} \rightarrow T_W = 15.83^\circ\text{C}$$