

An experiment is being done on the melting of ice. No heat is exchanged with the outside environment. The system has a mass m_W of water and a mass m_I of ice floating in the water. Both are at $T = 0\text{ }^\circ\text{C}$.

What mass of boiling water, m_B , must be added to the system to produce only water at $0\text{ }^\circ\text{C}$?

