

str. 135 / úloha 723

$$m = ? \text{ [kg]}$$

$$t_0 = 63 \text{ } ^\circ\text{C}$$

$$t = 37 \text{ } ^\circ\text{C}$$

$$Q_0 = 600 \text{ kJ} = 600\,000 \text{ J}$$

$$c = 4180 \frac{\text{J}}{\text{kg} \cdot ^\circ\text{C}}$$

$$Q_0 = m \cdot c \cdot (t_0 - t)$$

$$m = \frac{Q_0}{c \cdot (t_0 - t)}$$

$$m = \frac{600\,000}{4180 \cdot (63 - 37)}$$

$$\underline{\underline{m = 5,5 \text{ kg}}}$$

Hmotnosť vody je 5,5 kg.