$$Q = \dot{m} C_p \Delta T$$

$Q = 1500\ W$

$\dot{m} = ?$

$C_p = 4.1813\ \frac{J}{g K}$ (water at 25°C)

$\Delta T = 4°C = 7.2°F = 4\ K$

$$\dot{m} = \frac{Q}{C_p \Delta T}$$

$$C_p = \frac{4.1813\ J}{g K} \cdot \frac{453.59\ g}{1\ lbm} = 1896.596\ \frac{J}{lbm\ K}$$

$$\dot{m} = \frac{1500\ J}{s} \cdot \frac{lbm\ K}{1896.596\ J \cdot 4\ K} = 0.19772\ \frac{lbm}{s}$$

$$0.19772\ \frac{lbm}{s} \cdot \frac{1\ ft^3}{62.4\ lbm} \cdot \frac{7.48\ gal}{1\ ft^3} \cdot \frac{60\ s}{1\ min} = \boxed{1.42\ gal/min}$$

METRIC MODE ↓

$\dot{m} = \frac{Q}{C_p \Delta T}$ $Q = 1500 W$ $\dot{m} = ?$ $C_p = 4.1813\ \frac{J}{g K}$ $\Delta T = 4\ K$ $\rho = 998.2\ kg/m^3$

$$\dot{m} = \frac{1500\ J}{s} \cdot \frac{g K}{4.1813\ J \cdot 4 K} \cdot \frac{kg}{1000\ g} = .089685\ kg/s$$

$$.089685\ \frac{kg}{s} \cdot \frac{m^3}{998.2\ kg} \cdot \frac{60\ s}{1\ min} \cdot \frac{1000\ L}{1\ m^3} = \boxed{5.39\ L/min}$$