



concrete
 $k = 0.8 \frac{W}{mK}$

$$\frac{Q}{\Delta t} = k \frac{A}{z} \Delta T = k \frac{A}{z} (T_H - T_C)$$

$$A = 14 \times 10 = 140 m^2$$
$$z = 0.12 m$$

So $\frac{Q}{\Delta t} = 15,870 \frac{J}{s}$ or W
