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NOTES:

$R_{total} = R_{conv,1} + R_{Tarm} + R_{plaster\ in} + R_{comp} + R_{plaster\ out} + R_{conv,2}$

$\hookrightarrow R_t = 0.00476 + 0.00762 + 0.00476 + 0.01588 + 0.00476 + 0.00159$

$= 0.03917\ C°$

$\dot{Q} = \frac{T_{\infty,1} - T_{\infty 2}}{R_t} = \frac{27-10}{0.03917} = 434\ W$