\[
\dot{E}^{k=2}_h(T_j) = \begin{cases} 
\dot{E}^{k=2}_h(17) + \frac{[\dot{E}^{k=2}_h(47) - \dot{E}^{k=2}_h(17)] \times (T_j - 17)}{47 - 17}, & \text{if } T_j \geq 45 \, ^\circ\text{F} \\
\dot{E}^{k=2}_h(17) + \frac{[\dot{E}^{k=2}_h(35) - \dot{E}^{k=2}_h(17)] \times (T_j - 17)}{35 - 17}, & \text{if } 17 \, ^\circ\text{F} \leq T_j < 45 \, ^\circ\text{F} \\
\dot{E}^{k=2}_h(5) + \frac{[\dot{E}^{k=2}_h(17) - \dot{E}^{k=2}_h(5)] \times (T_j - 5)}{17 - 5}, & \text{if } T_j < 17 \, ^\circ\text{F}
\end{cases}
\]