Equation 4.2.4-3

$$\dot{Q}_h^{k=1}(T_j) = \begin{cases} \dot{Q}_h^{k=1}(47) + \dfrac{\left[\dot{Q}_h^{k=1}(62) - \dot{Q}_h^{k=1}(47)\right] * (T_j - 47)}{62 - 47}, & if\ T_j \geq 47\ °\mathrm{F} \\ \dot{Q}_h^{k=v}(35) + \dfrac{\left[\dot{Q}_h^{k=1}(47) - \dot{Q}_h^{k=v}(35)\right] * (T_j - 35)}{47 - 35}, & if\ 35\ °\mathrm{F} \leq T_j < 47\ °\mathrm{F} \\ \dot{Q}_h^{k=v}(T_j), & if\ T_j < 35\ °\mathrm{F} \end{cases}$$