$$\dot{Q}_{CC}^{k=2}\left(T_j\right) = \dot{m}_{da}^{k=2} \cdot C_{p,da}^{k=2} \cdot \left[T_{CC} - T_o^{k=2}\left(T_j\right)\right]$$

$$\dot{E}_{CC}^{k=2}\left(T_j\right) = \frac{\dot{Q}_{CC}^{k=2}\left(T_j\right)}{3.413 \frac{Btu}{W \cdot h}} \cdot$$