$M_i = V_{fi} \cdot \sigma_i$, lb/min. Eq. 11

$\sigma_i = (62.56 + (-.0003413 \times T3_i) + (-.00006225 \times T3_i^2))\ 0.1337$, lb/gal. Eq. 12

$C_p = 1.0014 + (-.000003485 \times T3_i)$ Btu/lb, -ºF. Eq. 13