Fio (
$$\frac{1b \text{ mol}}{hr}$$
) 10 10 0

Tio (°F) 80 80 -

Cpio ($\frac{Btu}{1b \text{ mol}}$) 51 44 47.5

MW ($\frac{1b}{1b \text{ mol}}$) 128 94 222

Pi ($\frac{1b}{4t^3}$) 63 67.2 65

Energy balance:

$$\begin{array}{lll} \text{UA} & (T_3-T) - \text{WS} - F_{Ao} \Delta H_{RX} \times_{AF} = & F_{Ao} \left(\text{CpA} + \text{CpB} \right) [T-T_0] \\ & -\text{WS} \\ & -\text{WS} - \text{XA} \Delta H_{R} = & \text{Z} \Theta; \text{Cp}; [T-T_0] - & \text{D} \\ & & -\text{FAO} \\ & & \text{FAO} \\ & & \text{B} = & \text{FB} \\ & & \text{FA} = 1 \end{array}; \quad \theta_{C} = 0 \; ; \; \text{XAF} = 1$$

T = To + UA (TS-T)-WS-FAO AHRX FAO (CPA+ CPB)+UA

-Ws = 63525 BtW hr 1 hp = 2544.43 Btu/hr
T = 199 °F