$$\dot{m}_{da} = \overline{\dot{V}}_s \cdot 0.075\ \frac{1\text{bm}_{da}}{\text{ft}^3} \cdot \frac{60\ \text{min}}{\text{hr}} = \frac{\overline{\dot{V}}_{mx}}{v'_n \cdot \left[1 + W_n\right]} \cdot \frac{60\ \text{min}}{\text{hr}} = \frac{\overline{\dot{V}}_{mx}}{v_n} \cdot \frac{60\ \text{min}}{\text{hr}}$$

$$C_{p,da} = 0.24 + 0.444 \cdot W_n$$