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$$V_{h1} = Q_0/\lambda_{v_1}\lambda_{p_1}\lambda_{r_1}\lambda_{r_1}n$$

$$= 21.5/(0.8502 \times 0.95 \times 0.96 \times 0.97 \times n)$$

$$= 0.07146m^3$$

$$Q_0^{'} = V_{h2}\lambda_{v_2}\lambda_{p_2}\lambda_{r_2}\lambda_{t_2}n$$

$$V_{h2} = \frac{Q_0\lambda_{\varphi_2}}{\lambda_{v_2}\lambda_{p_2}\lambda_{r_2}\lambda_{r_2}n} \cdot \frac{p_{11}}{p_{21}} \cdot \frac{T_{21}}{T_{11}} \cdot \frac{z_{21}}{z_{21}}$$

$$= \frac{21.5 \times 0.9954}{(0.8451 \times 0.98 \times 0.96 \times 0.97 \times 400)} \times \frac{1}{3} \times \frac{303}{293} \times \frac{1}{1}$$

$$= 0.02391m^3$$

































