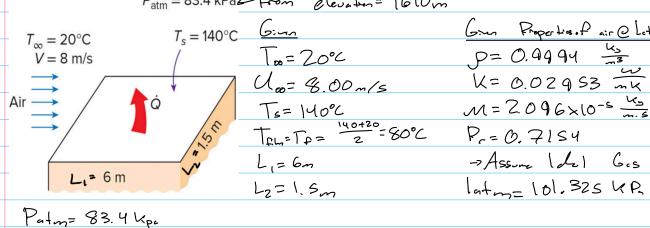
Trevor Swan

## ECHE225: QUIZ #12 // 12.04.24

Patm = 83.4 kPac From elevation= 1610m



Patm= 83.4 Kps

$$\begin{array}{c|c}
\hline
 P_{1} = P_{1} \\
\hline
 P_{1} = P_{2} \\
\hline
 P_{1} = P_{2} \\
\hline
 P_{2} = P_{2} \\
\hline
 P_{3} = P_{2} \\
\hline
 P_{1} = P_{2} \\
\hline
 P_{2} = 0.823 \\
\hline
 P_{2} = 0.823 \\
\hline
 P_{3} = 0.823 \\
\hline
 P_{4} = P_{2} \\
\hline
 P_{5} = 0.823 \\
\hline
 P_{6} = P_{6} \\
\hline
 P_{7} = 0.823 \\
\hline
 P_{7}$$

3. Pete of het tracker (KW) along L=6m Ren= PU DL = (0.823 \frac{k\_s}{\sigma^3})(8 m/s)(6m) = 1884732.8 = 18.84×10 5 75×105 torblat

2.096 × 10.5 \frac{k\_s}{m\_s} No, = 0.037 . (18.84×105) 4/5 . (0.7154) 1/3 = 3465.63 h= Nor Kruid = (3465.63) (0.02953 mx) = 17.057 mzk  $\dot{Q}_{cov} = \frac{h\Delta t}{A_5} = \frac{(17.057 \text{ m/m})(120\%)}{(6m \cdot 1.5m)} = 227.42 \text{ W}$   $\dot{Q}_{cov} = 0.23 \text{ W}$ 

4. Rete of het truster (UW) along 
$$L_2 = 1.5 \text{ m}$$

$$R_{L_1} = \frac{(0.823 \frac{k_3}{-3})(8 \text{ m/s})(15 \text{ m})}{2.096 \times 10^5 \frac{k_5}{\text{m/s}}} (0.7183 = 4.7 \times 10^5 \text{ (5} \times 10^5 \text{ combo})$$

$$N_{U_1} = 0.664 (4.7 \times 10^6)^{1/2} (0.7154)^{1/3} = 407.13$$

$$N_{U_2} = \frac{N_{U_1} \text{ Kfid}}{L} \frac{(407.13)(0.07953 \frac{1}{10^4})}{1.5m} = 6.015 \frac{W}{m^2 W}$$

$$Q_{CONJ} = \frac{N_{U_1} \text{ Kf}}{A_{S}} \frac{(6.015 \frac{W}{m^2 W})(120^{\circ}\text{C})}{(6m \cdot 1.5m)} = 106.667 \text{ W}$$

$$Q_{CONJ} = \frac{N_{U_2} \text{ Kf}}{A_{S}} \frac{(6.015 \frac{W}{m^2 W})(120^{\circ}\text{C})}{(6m \cdot 1.5m)} = 106.667 \text{ W}$$