

oil CP 2350
water CP 4180

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$$\therefore \Delta T_m = \frac{\Delta T_{out} - \Delta T_{in}}{\ln \left(\frac{\Delta T_o}{\Delta T_i} \right)}$$

$$= \frac{120 - 105}{\ln \left(\frac{120}{105} \right)}$$

$$= 112.33^\circ \text{C}$$

Parallel = ~~$Q = UA \Delta T_m$~~
 $Q = m c_p \Delta t$

$$\therefore R = \frac{Q}{c_p \times \Delta T}$$

$C_p \text{ oil} = 2350$
 $\text{water} = 4180$
 $m = 0.95 \text{ kg/s}$

$$Q = 0.95 \times 2350 \times$$