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ACMA6007

QB // Parallel = $\Delta T_o = T_{hot} - T_{cold}$
 $\Delta T_i = T_{in} - T_{out}$

$$\Delta T_o = \frac{135 - 60}{75} = 75^\circ C$$

~~Counter = $\Delta T_o = T_{hot} - T_{cold}$~~

$$\Delta T_i = \frac{165 - 15}{150} = 150^\circ C$$

$$\Delta T_{lm} = \frac{\Delta T_o - \Delta T_i}{\ln \left(\frac{\Delta T_o}{\Delta T_i} \right)}$$

$$= \frac{75^\circ C - 150^\circ C}{\ln \left(\frac{75}{150} \right)}$$

$$= 108.2^\circ C$$

Counter =

$$\Delta T_o = T_{hot} - T_{cold}$$

$$\Delta T_i = T_{in} - T_{out}$$

$$\Delta T_o = 135 - 15 = 120^\circ C$$

$$\Delta T_i = 165 - 60 = 105^\circ C$$