

LAMPIRAN

Perhitungan

Perhitungan Mencari $\Delta TLMTD$

$$\Delta TLMTD = \frac{(Th1 - Tc2) - (Th2 - Tc1)}{\ln \frac{(Th1 - Tc2)}{(Th2 - Tc1)}}$$

$$\begin{aligned} \text{Variabel I} &= \frac{(50-37)^{\circ}\text{C} - (38-20)^{\circ}\text{C}}{\ln \frac{(50-37)^{\circ}\text{C}}{(38-20)^{\circ}\text{C}}} \\ &= 15,3657^{\circ}\text{C} \end{aligned}$$

$$\begin{aligned} \text{Variabel II} &= \frac{(55-34)^{\circ}\text{C} - (37-20)^{\circ}\text{C}}{\ln \frac{(55-34)^{\circ}\text{C}}{(37-20)^{\circ}\text{C}}} \\ &= 18,9304^{\circ}\text{C} \end{aligned}$$

$$\begin{aligned} \text{Variabel III} &= \frac{(58-43)^{\circ}\text{C} - (44-20)^{\circ}\text{C}}{\ln \frac{(58-43)^{\circ}\text{C}}{(40-20)^{\circ}\text{C}}} \\ &= 14,4942^{\circ}\text{C} \end{aligned}$$

$$\begin{aligned} \text{Variabel IV} &= \frac{(58-42)^{\circ}\text{C} - (43-25)^{\circ}\text{C}}{\ln \frac{(58-42)^{\circ}\text{C}}{(43-25)^{\circ}\text{C}}} \\ &= 16,9804^{\circ}\text{C} \end{aligned}$$

$$\begin{aligned} \text{Variabel V} &= \frac{(58-46)^{\circ}\text{C} - (47-30)^{\circ}\text{C}}{\ln \frac{(58-46)^{\circ}\text{C}}{(47-30)^{\circ}\text{C}}} \\ &= 14,3552^{\circ}\text{C} \end{aligned}$$