

LAMPIRAN

Perhitungan volume reaktor

- *Pre treatment*

Diketahui panjang kompartemen 30 cm, lebar 30 cm, dan tinggi 75 cm.

Berisi filter dengan ketinggian 65cm, panjang dan lebar 30 cm

Jadi, volume *pre treatment*

$$\begin{aligned}V_{\text{reaktor}} &= P \times L \times T \\ &= 30 \times 30 \times 75 \\ &= 675000 \text{ cm}^3 \text{ atau } 67,5 \text{ L}\end{aligned}$$

$$\begin{aligned}V_{\text{filter}} &= 30 \times 30 \times 65 \\ &= 58500 \text{ cm}^3 \text{ atau } 58,5 \text{ L}\end{aligned}$$

$$\text{Volume sebenarnya} = 67,5 \text{ L} - 58,5 \text{ L} = 9 \text{ L}$$

- *Main treatment*

Diketahui panjang kompartemen 60 cm, tinggi 30 cm, dan lebar 30 cm

Jadi, volume *main treatment*

$$\begin{aligned}V &= P \times L \times T \\ &= 60 \times 30 \times 30 \\ &= 54000 \text{ cm}^3 \text{ atau } 54 \text{ L}\end{aligned}$$

- *Post treatment*

Diketahui panjang kompartemen 50 cm, tinggi 30 cm, dan lebar 30 cm

$$\begin{aligned}V &= P \times L \times T \\ &= 50 \times 30 \times 30 \\ &= 45000 \text{ cm}^3 \text{ atau } 45 \text{ L}\end{aligned}$$