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CARBON SIZING FORMULA EMPTY BED CONTACT TIME (EBCT)

$$\text{EBCT IN MINUTES} = \frac{\text{BED VOLUME (FT}^3\text{)} \times 7.481 \text{ GAL/FT}^3}{\text{FLOW RATE (GPM)}}$$

$$\text{BED VOLUME} = \text{TANK AREA (SQ. FT.)} \times \text{DEPTH (FT.)}$$

EBCT FOR SOME COMMON CONTAMINENTS

CHLORINE = 2 MINUTES

VOC'S = 7 MINUTES

HYDROGEN SULFIDE H₂S = 4 MINUTES

$$\text{BED VOLUME} = \frac{\text{CONTACT TIME} \times \text{FLOW RATE (GPM)}}{7.481 \text{ GAL/FT}^3}$$

USE THIS FORMULA WHEN YOU HAVE TO DETERMINE THE AMOUNT OF CARBON YOU NEED TO TREAT ONE OF THE ABOVE THREE CONTAMINENTS.

Carbon Usage Rates	Tank Volume Data I	TANK VOLUME Data II	EBCT	Typical Backwash Rates
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