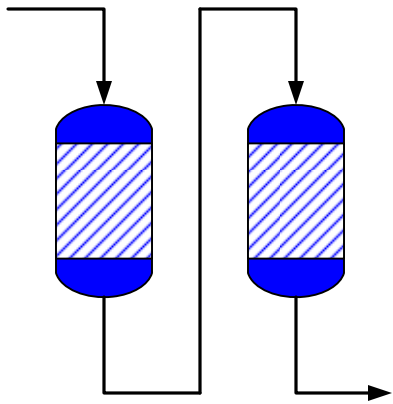


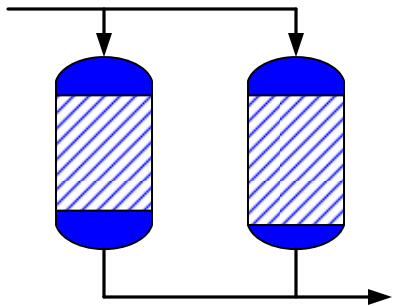
Single Adsorber

Low carbon exhaustion rate (usage rate).



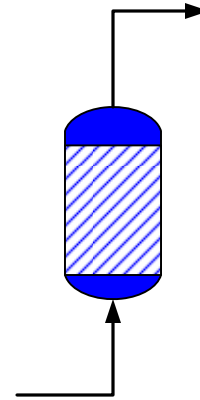
Fixed Beds in Series

Unusual temperature or pressure conditions must be used in the column.
High carbon exhaustion rate occurs.
Gradually sloping breakthrough curve.
High effluent quality must be assured at all times.



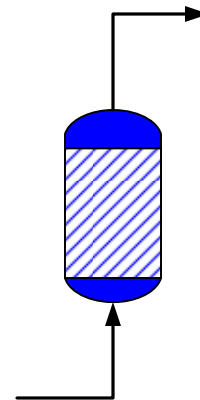
Fixed Beds in Parallel

High system pressure drop is minimized.
Large total flow rate is required.



Moving Bed, Upflow

High carbon exhaustion rate occurs.
High effluent quality is required. Either some carbon fines can be tolerated in the effluent, or carbon adsorption is followed by filtration.



Expanded Bed, Upflow

High suspended solids are present in the influent and some suspended solids can be tolerated in the effluent.