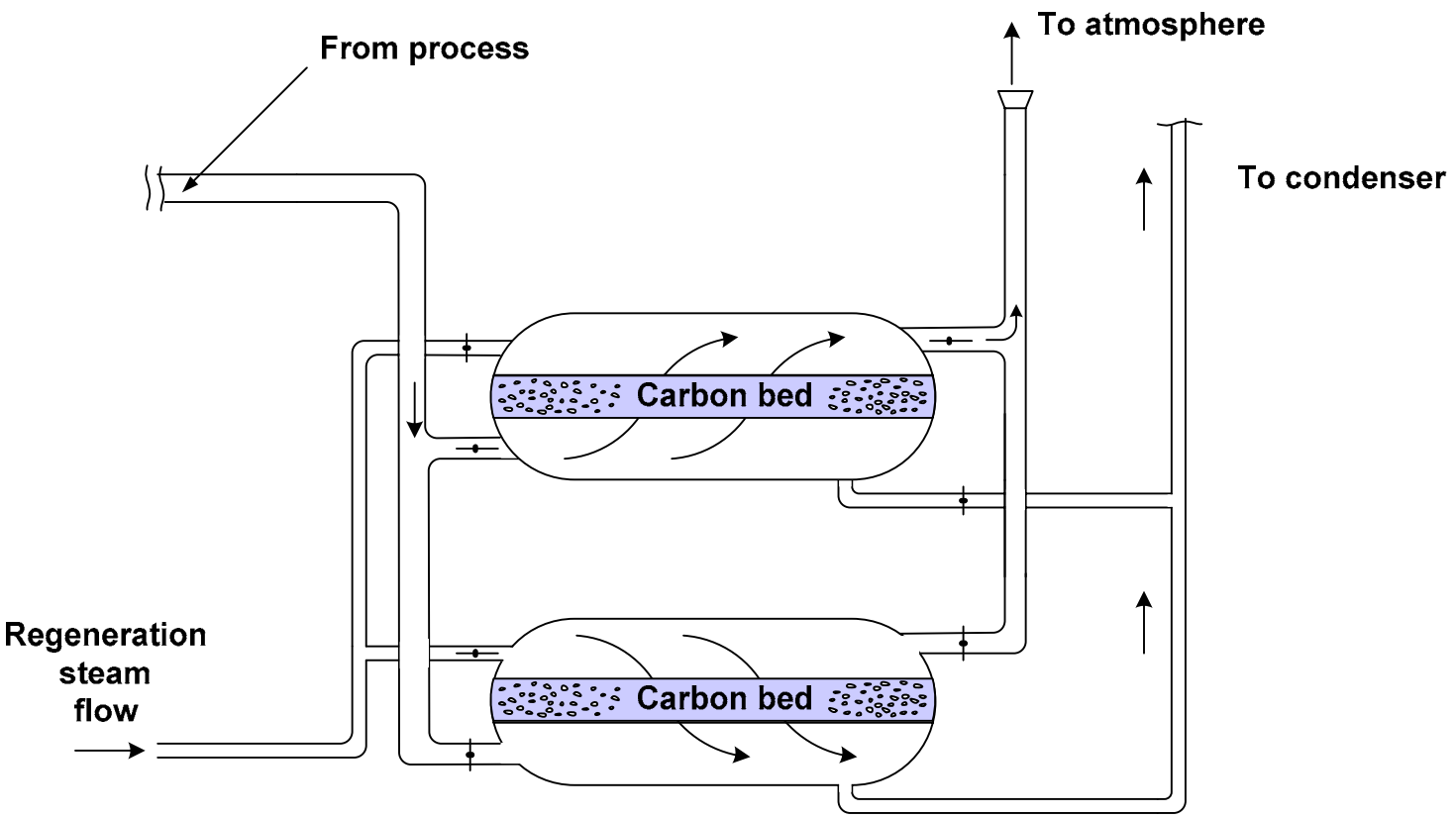Regenerative Carbon Adsorber