

4. A rigid tank whose volume is unknown is divided into two parts by a partition, as shown in Fig. Q4. One side of the tank contains an ideal gas at 927°C . The other side is evacuated and its volume is twice that to the gas containing part. The partition is now removed and the gas quickly expands to fill the entire tank. Heat is now applied to the gas until the pressure equals the initial pressure.

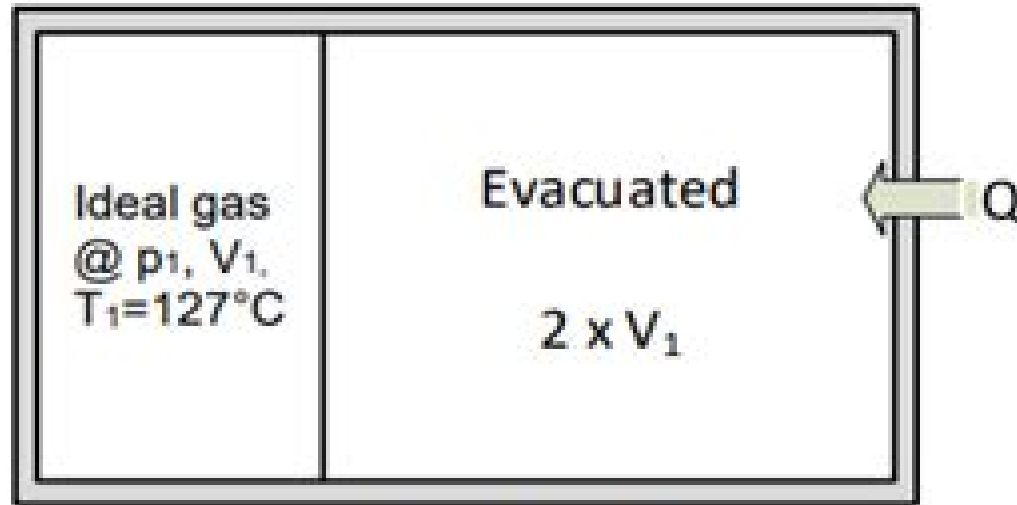


Fig. Q4 - A rigid tank

- b) During the first expansion process, which property/properties remain unchanged and why? [2 marks]
- c) Determine the pressure, volume and temperature at the end of the expansion process, in relation to the initial state p_1, v_1 and T_1 . [3 marks]
- d) Determine the final temperature of the gas at the end of the heat addition process. [3 marks]

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