15 A fixed mass of ideal gas undergoes a contraction in volume from 80×10^{-3} m^3 to 40×10^{-3} m^3 at a constant pressure of 25 kPA. During this contraction, 2500 J of heat is removed from the gas.

What is the change in internal energy of the gas?

A −3500 J **B** −1500 J **C** 1500 J **D** 3500 J