

14 As part of a single breathing cycle, an adult male expels $1.5 \times 10^{-4} \text{ m}^3$ of used air from the lungs with a pressure of $1.2 \times$ atmospheric pressure.

How much work is done on the expelled air during this process? Atmospheric pressure is 100 kPa.

A 3.0J

B 3.6J

C 15J

D 18J

