

Answer on Question #49240 – Physics – Molecular Physics – Thermodynamics

Question:

A gas expands from 5 litre to 105 litre at a constant pressure 100n/m² the work done is

Answer:

$$W = P \cdot \text{change in vol}$$

$$\text{change in vol} = 105 - 5 = 100 \text{ litres} = 0.1 \text{ m}^3$$

$$W = 100 \cdot 0.1 = 10 \text{ joule}$$

Answer: 10 joule