



134 In un vaso cilindrico per conserve da 0,50 L, di diametro 70 mm, viene versata della marmellata appena cotta a una temperatura di 90 °C; la marmellata riempie il vaso fino all'altezza di 11 cm.

Il vaso viene quindi chiuso ermeticamente e si raffredda fino a temperatura ambiente (20 °C). L'aria, inizialmente, si trovava alla pressione standard di  $1.0 \times 10^5$  Pa. Calcola:

- ▶ la pressione dell'aria rimasta all'interno del vaso (trascura in questa fase la deformazione del coperchio, e considera la trasformazione a volume costante);
- ▶ il numero di moli di aria rimaste all'interno del barattolo.

$$[8,1 \times 10^{4} \text{ Pa; } 2,5 \times 10^{-3} \text{ mol}]$$

$$2^{0} \text{ LEF4F M GAY-LUSSAG} \qquad \frac{P1}{T_{4}} = \frac{P^{2}}{T_{2}} \qquad \text{V costante}$$

$$T_{4} = \frac{T_{2}}{T_{2}} \qquad \text{P1} = \frac{2.93 \text{ K}}{36.3 \text{ K}} \qquad (1,0 \times 10^{5} \text{ Pa}) = \frac{1}{36.3 \text{ K}} \qquad (1,0 \times 10^{5} \text{ Pa}) = \frac{1}{36.3 \text{ K}} \qquad (1,0 \times 10^{5} \text{ Pa}) = \frac{1}{36.3 \text{ K}} \qquad (1,0 \times 10^{5} \text{ Pa}) = \frac{1}{36.3 \text{ K}} \qquad (1,0 \times 10^{5} \text{ Pa}) = \frac{1}{36.3 \text{ K}} \qquad (1,0 \times 10^{5} \text{ Pa}) = \frac{1}{36.3 \text{ K}} \qquad (1,0 \times 10^{5} \text{ Pa}) = \frac{1}{36.3 \text{ K}} \qquad (1,0 \times 10^{5} \text{ Pa}) = \frac{1}{36.3 \text{ K}} \qquad (1,0 \times 10^{5} \text{ Pa}) = \frac{1}{36.3 \text{ K}} \qquad (1,0 \times 10^{5} \text{ Pa}) = \frac{1}{36.3 \text{ K}} \qquad (1,0 \times 10^{5} \text{ Pa}) = \frac{1}{36.3 \text{ K}} \qquad (1,0 \times 10^{5} \text{ Pa}) = \frac{1}{36.3 \text{ K}} \qquad (1,0 \times 10^{5} \text{ Pa}) = \frac{1}{36.3 \text{ K}} \qquad (1,0 \times 10^{5} \text{ Pa}) = \frac{1}{36.3 \text{ K}} \qquad (1,0 \times 10^{5} \text{ Pa}) = \frac{1}{36.3 \text{ K}} \qquad (1,0 \times 10^{5} \text{ Pa}) = \frac{1}{36.3 \text{ K}} \qquad (1,0 \times 10^{5} \text{ Pa}) = \frac{1}{36.3 \text{ K}} \qquad (1,0 \times 10^{5} \text{ Pa}) = \frac{1}{36.3 \text{ K}} \qquad (1,0 \times 10^{5} \text{ Pa}) = \frac{1}{36.3 \text{ K}} \qquad (1,0 \times 10^{5} \text{ Pa}) = \frac{1}{36.3 \text{ K}} \qquad (1,0 \times 10^{5} \text{ Pa}) = \frac{1}{36.3 \text{ K}} \qquad (1,0 \times 10^{5} \text{ Pa}) = \frac{1}{36.3 \text{ K}} \qquad (1,0 \times 10^{5} \text{ Pa}) = \frac{1}{36.3 \text{ K}} \qquad (1,0 \times 10^{5} \text{ Pa}) = \frac{1}{36.3 \text{ K}} \qquad (1,0 \times 10^{5} \text{ Pa}) = \frac{1}{36.3 \text{ K}} \qquad (1,0 \times 10^{5} \text{ Pa}) = \frac{1}{36.3 \text{ K}} \qquad (1,0 \times 10^{5} \text{ Pa}) = \frac{1}{36.3 \text{ K}} \qquad (1,0 \times 10^{5} \text{ Pa}) = \frac{1}{36.3 \text{ K}} \qquad (1,0 \times 10^{5} \text{ Pa}) = \frac{1}{36.3 \text{ K}} \qquad (1,0 \times 10^{5} \text{ Pa}) = \frac{1}{36.3 \text{ K}} \qquad (1,0 \times 10^{5} \text{ Pa}) = \frac{1}{36.3 \text{ K}} \qquad (1,0 \times 10^{5} \text{ Pa}) = \frac{1}{36.3 \text{ K}} \qquad (1,0 \times 10^{5} \text{ Pa}) = \frac{1}{36.3 \text{ K}} \qquad (1,0 \times 10^{5} \text{ Pa}) = \frac{1}{36.3 \text{ K}} \qquad (1,0 \times 10^{5} \text{ Pa}) = \frac{1}{36.3 \text{ K}} \qquad (1,0 \times 10^{5} \text{ Pa}) = \frac{1}{36.3 \text{ K}} \qquad (1,0 \times 10^{5} \text{ Pa}) = \frac{1}{36.3 \text{ K}} \qquad (1,0 \times 10^{5} \text{ Pa}) = \frac{1}{36.3 \text{ K}} \qquad (1,0 \times 10^{5} \text{ Pa}) = \frac{1}{36.3 \text{ K}} \qquad (1,0 \times 10^{5} \text{ Pa}) = \frac{1}{36.3 \text{ K}} \qquad (1,0 \times 10^{5} \text{ Pa}) = \frac{1}{36.3 \text{ K}} \qquad (1,0 \times 10^{5} \text{ Pa}) = \frac{1}{36.3 \text{ K}} \qquad (1,0 \times 10^{5} \text{ Pa}) = \frac{1}{36.3 \text{ K}} \qquad (1,0$$