

i.e., Cylinder bore, $D = 0.1414$ m or 141.4 mm. (Ans.)

$$\text{Power input to the compressor} = \frac{4.23}{0.85} = 4.98 \text{ kW}$$

$$\therefore \text{Motor power} = \frac{4.98}{0.9} = 5.53 \text{ kW. (Ans.)}$$

Example 24.3. An air compressor takes in air at 1 bar and 20°C and compresses it according to law $pv^{1.2} = \text{constant}$. It is then delivered to a receiver at a constant pressure of 10 bar. $R = 0.287 \text{ kJ/kg K}$. Determine :

- Temperature at the end of compression ;
- Work done and heat transferred during compression per kg of air.

Solution. Refer Fig. 24.15.

$$T_1 = 20 + 273 = 293 \text{ K} ; p_1 = 1 \text{ bar} ; p_2 = 10 \text{ bar}$$

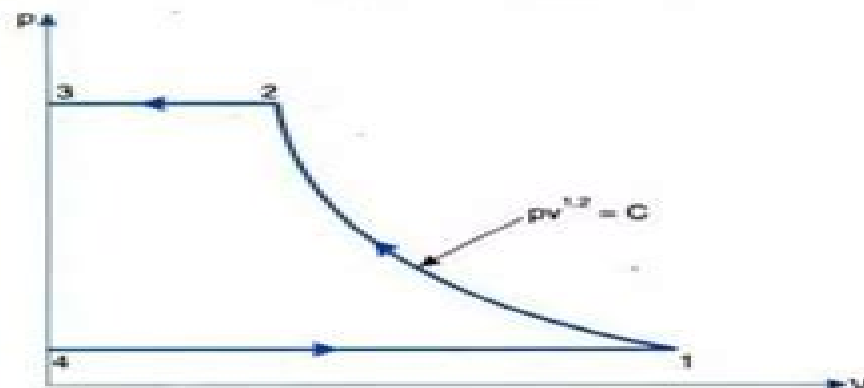


Fig. 24.15

Law of compression : $pv^{1.2} = C$; $R = 0.287 \text{ J kJ/kg K}$

(i) Temperature at the end of compression, T_2 :

For compression process 1-2, we have

$$\frac{T_2}{T_1} = \left(\frac{p_2}{p_1} \right)^{\frac{n-1}{n}} = \left(\frac{10}{1} \right)^{\frac{1.2-1}{1.2}} = 1.468$$

or

$$T_2 = T_1 \times 1.468 = 293 \times 1.468 = 430 \text{ K or } 157^\circ\text{C. (Ans.)}$$

(ii) Work done and heat transferred during compression per kg of air :

$$\text{Work done, } W = mRT_1 \frac{n}{n-1} \left[\left(\frac{p_2}{p_1} \right)^{\frac{n-1}{n}} - 1 \right] \quad \dots[\text{Eqn. (24.5)}]$$

$$= 1 \times 0.287 \times 293 \times \left(\frac{1.2}{1.2-1} \right) \left[\left(\frac{10}{1} \right)^{\frac{1.2-1}{1.2}} - 1 \right] = 236.13 \text{ kJ/kg of air. (Ans.)}$$

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