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Refrigeration  $\rightarrow$  may be defined as the process of removing heat from a substance and maintaining the temp. of a body below the temp. of surrounding. The substance works to extract heat is called refrigerant.

Unit of Refrigeration:- It is expressed in terms of 'tonne of refrigeration'. A TR (Tonne of refrigeration) is defined as the amount of refrigeration effect produced by the uniform melting of one tonne (1000kg) of ice from and at 0°C in 24 hours.

Latent heat of ice = 335 kJ/kg

$$1 \text{ TR} = 1000 \times 335 \text{ kJ in 24 hours.}$$

$$= \frac{1000 \times 335}{24 \times 60}$$

$$\boxed{1 \text{ TR} = 232.6 \text{ kJ/min}}$$

OR

$$\boxed{1 \text{ T.R.} = 210 \text{ kJ/min}}$$

OR

$$\boxed{1 \text{ T.R.} = 35 \text{ kW (35 kJ/sec)}}$$