

# Differential Scanning Calorimeter (DSC)

**Make: PerkinElmer**

**Model : DSC8000**

**Applications:**



DSC is commonly used for the study of biochemical reactions, which is named as a single molecular transition of a molecule from one conformation to another. Thermal transition temperatures ( $T_t$ ; melting points) of the samples are also determined in solution, solid, or mixed phases such as suspensions.

**Specifications:**

- **Range  $-180\text{ }^{\circ}\text{C}$  to  $750\text{ }^{\circ}\text{C}$  Accuracy  $\pm 0.05\text{ }^{\circ}\text{C}$  Using on-set temperatures of**
- **Indium melting peak**
- **Precision  $\pm 0.008\text{ }^{\circ}\text{C}$**
- **Data points/sec 33**
- **Controlled heating rates  $0.01$  to  $300\text{ }^{\circ}\text{C}/\text{min}$  Controlled cooling rates  $0.01$  to**
- **$150\text{ }^{\circ}\text{C}/\text{min}$  Controlled Cooling Ambient coolant – nitrogen purge  $10\text{ }^{\circ}\text{C}/\text{min}$**
- **to  $22\text{ }^{\circ}\text{C}$**
- **$20\text{ }^{\circ}\text{C}/\text{min}$  to  $35\text{ }^{\circ}\text{C}$**
- **$50\text{ }^{\circ}\text{C}/\text{min}$  to  $70\text{ }^{\circ}\text{C}$**
- **$100\text{ }^{\circ}\text{C}/\text{min}$  to  $125\text{ }^{\circ}\text{C}$**

Tariff	Tariff for NITW Students	External Academic (18 % GST Extra)	Industry (18 % GST Extra)
		Per Hour	Per Hour
	₹ 100	₹ 500	₹ 1000