



THE LAB EQUIPMENT

Email : sales@thelabequipment.com

Phone: +91-8759245890

Product Name :

Computerized Emissivity Measurement
Apparatus

Product Code :

SLE/MCE/71



Website: <https://www.thelabequipment.com>, **Email:** sales@thelabequipment.com

plot. no.296. Sector 5. Vaishali. Ghaziabad. Uttar Pradesh 201010



THE LAB EQUIPMENT

Email : sales@thelabequipment.com

Phone: +91-8759245890

Description :

Description:

- Computerized Emissivity Measurement Apparatus offers basic experiments for targeted teaching on the topic of heat transfer by radiation.
- The reflector concentrates the radiation to a focal point.
- A sample is placed on a thermocouple located at the focal point.
- The thermal radiation emitted by the sample is measured by a thermopile.
- At the heart of the experimental unit is a metallic sample heated by a concentrated light beam.
- The light beam is generated by a continuously adjustable halogen lamp and a parabolic reflector.
- In order to be able to measure the radiation at different distances, the thermopile is mounted on a moveable carriage.
- Heat radiation is one of the three basic forms of heat transfer.
- In radiation the heat transfer takes place via electromagnetic waves.
- Unlike heat conduction and convection, heat radiation can also propagate in a vacuum. Heat radiation is not bound to

Specification:

- Halogen lamp
- Electrical power 150W
- **Max. Temperature:** approx. 560°C
- Aluminum samples, Ø 20mm
- 1x matt anodized on both sides.
- 1x nickel-plated
- 1x heavily oxidized
- Steel sample, Ø 20mm
- 1x heavily oxidized
- 1x painted on both sides.
- 1x matt anodized with one painted side.
- Copper samples, Ø 20mm.

Measuring ranges:

- **Temperature:** 0...780°C
- **Radiation intensity:** 0...1250W/m²
- **Dimension:** 700x450x400mm
- **Weight (approx.):** 20kg

Power Supply:

- 230V, 50Hz, 1 phase
- 230V, 60Hz, 1 phase; 120V, 60Hz, 1 phase

Contact Science Lab for your Educational School Science Lab Equipments. We are best educational equipment manufacturers india, education lab supplies, lab equipment suppliers in ambala, laboratory glassware manufacturers in india, school science lab equipment suppliers in india, science lab equipment for schools, educational lab equipment manufacturer.

Website: <https://www.thelabequipment.com>, **Email:** sales@thelabequipment.com

plot. no.296. Sector 5. Vaishali. Ghaziabad. Uttar Pradesh 201010