



ENERGY TRANSFER BY RADIATION

RH 070

Description:

Heat transfer through radiation also takes place in a vacuum environment and does not need a medium like the other mechanisms. This experimental unit contains two radiation sources: a heat radiator and a light emitter. Thermal radiation is detected by means of a thermopile. Light radiation is recorded by means of a luxmeter with photodiode. Various optical elements such as apertures, absorption plates or color filters may be placed between the emitter and the detector.

Specifications:

- Radiation source with adjustable power
- Light emitter with adjustable angle
- Luxmeter
- Thermopile for measuring radiant power
- Absorption plate and reflection plate with thermocouples for the investigation of Kirchhoff's laws
- Color filters with holder
- Thermopile for measuring radiant power
- Electrical control panel with displays and switches
- Installation and training video included
- Instructions manual included
- 10-year warranty

Note: Direct contact with the sales department is required to confirm the last updated technical specifications and pictures.

Applications:

1. Investigation of thermal radiation
2. Investigating Kirchhoff law for radiation
3. Obtaining emissivity of various plates
4. Investigating Lambert's law
5. Obtaining Stefan Boltzmann constant

Required For Operation:

- 220V Single Phase Electricity
- Desirable Temperature (°C): 10-30
- Relative Humidity: 15% - 80%



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HEAT TRANSFER



Dimensions (L*W*H) mm:1800×650×550

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