

Product Name :
Stefan Boltzman Apparatus**Product Code :**
ALABS-A143-029**Description :**

Stefan Boltzman Apparatus

Technical Specification :

Stefan Boltzman Apparatus

The apparatus is designed to determine the Stefan Boltzman constant.

The apparatus consists of a hemisphere fixed to a Bakelite plate, the outer surface of which forms the jacket to heat it.

Hot water to heat the hemisphere is obtained from a hot water tank, which is fixed above the hemisphere. The copper test disc is introduced at the center of hemisphere.

The temperatures of hemisphere and test disc are measured with the help of temperature sensors.

Experimentation:

Determination of Stefan Boltzmann constant and study the effect of hemisphere temperature on it.

Utilities Required:

Electricity Supply : 1 Phase, 220 V AC, 2 kW.

Table for set-up support.

Technical Specifications:

Hemisphere Dia: 200 mm (approx.) made of Copper

Jacket Dia: 250 mm (approx.) made of Stainless Steel

Test Disc Size: 20 mm Dia. x 1.5-mm thickness made of Copper

Water Tank: Stainless steel 12 Ltrs. cap

Heater: Nichrome wire immersion heater

Digital Temp. Controller: 0 to 199.90C, (for water tank)

Digital Temp. Indicator: 0 to 199.90C, with multi channel switch

Temperature sensors: RTD PT-100 type

Instruction Manual: An english instruction manual will be provided along with the Apparatus

The whole set-up is well designed and arranged on a powder-coated structure



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