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Stephen Boltzman Apparatus

Product Supply Code NEGEMG168

DESCRIPTION

Stephen Boltzman Apparatus

Stephen Boltzman Apparatus consists of a hemisphere which is placed inside a tank; the hemisphere is immersed in water when water is poured in the tank. The hemisphere has a cover with hole through which a small copper disc can be located at the centre of hemisphere. Five thermocouples are located on inner surface of the hemisphere while a thermocouple is fitted on the copper disc. The inner surface of the hemisphere as well as the test disc are coated with lamp black color. Water inside the tank is heated by an immersion heater. A temperature controller is provided for controlling the temperature of the water by controlling the heater.

Specifications:

- Copper hemisphere: Copper Spheres, coated with lamp black color from inside
- Water Tank: Made in Stainless Steel
- Electric Heater: Immersion Heater, Capacity 500 W, Supply 230 V AC
- Temperature Controller: Microprocessor Controller with digital display & adjustable setpoint
- Temperature Sensors: Type ‘K’ Thermocouples – 6 Nos
- Temperature Indicator: 6 Channel Indicator with Selector Switch, Range 0-199.9 °C
- Frame: Made of M.S. Square Tubes & Sheets, Welded & Powder coated

Experimental Capabilities:

- Determination of value of Stefan-Boltzmann constant for radiation heat transfer
- Comparison of calculated value of thermal conductivity with actual value

Enquiries and tender quotations
Send your requirement or BOQ to **sales@naugraexport.com** or call **+91-98966-00003**, quoting NEGEMG168. Manufactured at our own works in Ambala Cantt and supplied worldwide.

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