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Product Name :
Computerized Stefan Boltzman Apparatus

Product Code :
SCHOOL-MAS850006



Description :

Computerized Stefan Boltzman Apparatus

Technical Specification :

FEATURES:

Experiments in vacuum

Heat transfer by radiation

Determination of the radiation coefficient

Determination of the heat quantity transferred by convection

Determination of the heat transfer coefficient based on measured values

Experiments at ambient pressure or positive gauge pressure

Heat transfer by convection and radiation

Theoretical determination of the heat transfer coefficient based on the Nusselt number

Comparison of the heat transfer in different gases

Heat transport between heating element and vessel wall by convection and radiation

Heating element

SPECIFICATION:

Pump for vacuum generation

Power consumption: 250W

Nominal suction capacity: 5m³/h

Final pressure with gas ballast: 3*10⁻³mbar

Final pressure without gas ballast: 3*10⁻³mbar

Output: 20W

Radiation surface area: approx. 61cm²

Pressure vessel :

Pressure: -1...1,5bar

Volume: 11L

Measuring ranges :

Negative pressure: 0,5*10⁻³...1000mbar

Pressure: -1...1,5bar rel.

Temperature: 0...250°C

Power: 0...23W

Required for Operation :

230V, 50Hz, 1 phase

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

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