

Product Name :
Computerized Stefan Boltzman Apparatus

Product Code :
ENGLABINGCAG3300006



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



Engineering Lab Equipment India