

**Product Name :**  
Computerized Composite Wall Apparatus

**Product Code :**  
ENGLABINGCAG330003



**Description :**

Computerized Composite Wall Apparatus

**Technical Specification :**

**FEATURES:**

- Calculate the thermal conductivity ? of different metals
- Calculate the thermal resistance of the sample
- Heat transfer with different samples connected in series
- Effect of sample length on heat transfer
- Effect of different metals on heat conduction
- Functions of the software: educational software, data acquisition, system operation
- Time dependency until the steady state is reached

**SPECIFICATION:**

- Continuously adjustable heater
- Peltier element as cooler
- 11 samples made of 5 metals, different lengths
- Samples  $\varnothing$  20mm

Peltier element :  
Cooling capacity: 56,6W

Heater :

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Heating power: 30W  
Temperature limitation: 150°C

Length between measuring points :  
5x 20mm (copper, steel, stainless steel, brass, aluminum)  
5x 40mm (copper, steel, stainless steel, brass, aluminum)  
1x 40mm with turned groove (aluminum)

Measuring ranges :  
Temperature: 4x 0...325°C  
Heating power: 0...50W



**Engineering Lab Equipment India**