

**Product Name :**  
Free and Force Convection Apparatus

**Product Code :**  
EEMECH45M0087

ALTEC™

**Description :**

Free and Force Convection Apparatus

**Technical Specification :**

- The air flows past a heating element and absorbs heat.
- Four heating elements with different geometries are available to be selected.
- The heating elements are designed in such a way to release heat only at their surface.
- The compact design ensures rapid heating and a short time for experiments.
- The experimental unit is equipped with temperature sensors at the inlet and outlet of the air duct.
- The air velocity is measured to determine the airflow rate.
- Heating power and flow rate are adjusted and displayed via the software.
- The microprocessor-based instrumentation is well protected in the housing.
- The software consists of a software for system operation and for data acquisition and an educational software is connected to the PC via USB.
- Flow cross-section: 120x120mm

- Height: approx. 0,6m
- Heating elements, temperature limitation: 90°C
- Number of tubes: 23
- Heating power: 20W
- Heat transfer area: 0,001m<sup>2</sup>
- Heating power: 20W
- Heat transfer area: 0,0112m<sup>2</sup>
- Plate Heating power: 40W
- Heat transfer area: 2x 0,01m<sup>2</sup>
- Cylinder Heating power: 40W
- Heat transfer area: 0,0112m<sup>2</sup>
- Max. Flow rate: 500m<sup>3</sup>/h
- Max. Pressure difference: approx. 950Pa
- Dimension: 800x600x800mm
- Weight (approx.): 30kg
- Power consumption: 90W
- Air velocity: 0...10m/s
- Temperature: 4x 0...325°C
- Heating power: 0...50W
- 230V, 50Hz, 1 phase
- 230V, 60Hz, 1 phase; 120V, 60Hz, 1 phase



## Equipments Exporters

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