

Product Name :

Free and Force Convection Apparatus

Product Code :

SLE/MCE/73



Description :

- 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.

Specification:

- **Flow cross-section:** 120x120mm
- **Height:** approx. 0,6m
- **Heating elements, temperature limitation:** 90°C
- **Number of tubes:** 23
- **Heating power:** 20W
- **Heat transfer area:** 0,001m²

Cylinder temperature at the surface

- **Heating power:** 20W
- **Heat transfer area:** 0,0112m²
- **Plate Heating power:** 40W
- **Heat transfer area:** 2x 0,01m²
- **Cylinder Heating power:** 40W
- **Heat transfer area:** 0,0112m²

Axial fan

- **Max. Flow rate:** 500m³/h
- **Max. Pressure difference:** approx. 950Pa
- **Dimension:** 800x600x800mm
- **Weight (approx.):** 30kg
- **Power consumption:** 90W

Measuring ranges:

- **Air velocity:** 0...10m/s
- **Temperature:** 4x 0...325°C
- **Heating power:** 0...50W

Power Supply:

- 230V, 50Hz, 1 phase
- 230V, 60Hz, 1 phase; 120V, 60Hz, 1 phase

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