

Product Name :
Heat Conduction Trainer

Product Code :
WL 900



Description :

Heat Conduction Trainer

Specification

- 1] Trainer to determinate the steady state and non-steady state thermal conductivities
- [2] Water-filled heat source and heat sink
- [3] Raised tank with overflow to generate a constant initial pressure
- [4] Temperature and flow rate measurement for cooling water
- [5] Electric heater with PID controller
- [6] Digital displays: heating capacity, temperatures
- [7] LabVIEW software for data acquisition via USB under Windows XP or Windows Vista

Technical Data

Heater

- power: 800W
- temperature: 20...80°C

Specimen

- Cu, Al, brass; Dxl: 40x450mm
- steel, Dxl: 40x300mm
- VA, Dxl: 40x300mm

Heating tank: 5L

Cooling tank: 0.5L

Raised tank: approx. 6L

Flow meter: 15...230cm³/min

14 temperature sensors

- 12x along the specimen
- 2x in cooling water circuit

Measuring ranges

- temperature: 0...200°C
- power: 0...1000W

Dimensions and Weight

l x w x h: 1000 x 700 x 1745 mm

Weight: approx. 96 kg

Connections

230V, 50/60Hz, 1 phase or 120V, 60Hz, 1 phase or 120V, CSA, 1 phase

Cold water supply 3bar, 150L/h



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