

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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