

Heat Equivalent Apparatus

Order code: **5401.1002658**



Cena bez DPH

915,00 Eur

Price with VAT

1.107,15 Eur

Parameters

Quantitative unit

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Apparatus for determining the specific heat capacity of aluminum and for confirming the energy conservation law. The robust heat equivalent apparatus consists of a shaft with ball bearings at both ends, an integrated counter for measuring the number of revolutions performed and an attached table clamp for securing the device. The aluminum calorimeter body heats up as a result of frictional work or electrical energy from the integrated heating element. An NTC thermistor, acting as a temperature sensor and located in an aluminum case,

determines the temperature. The calculation can be performed easily using the temperature calibration table printed on the apparatus.

- **Length:** approx. 230 mm
- **Span of the table clamp:** 10 – 65 mm
- **Cord length:** approx. 1,80 m
- **Calorimeter body:** approx. 50 × 48 mm dia.
- **Electric heater power:** 10 V, 1 A
- **Heating element connection:** 2 mm sockets
- **Weight calorimeter:** approx. 250 g
- **Total weight:** approx. 1 200 g

Contents:

- 1 Basic unit
- 1 Aluminum calorimeter
- 1 Temperature sensor
- 1 Pair of adapter cables with 4 mm safety plugs / 2 mm plugs
- 1 Friction belt
- 1 Bucket, 5 l
- 1 Counterweight

Additionally required for temperature measurement:

- 5401.U11155 Digital Multimeter

Additionally recommended:

- 5401.U33020230 DC Power Supply, 0 - 20 V, 0 - 5 A (230 V, 50 / 60 Hz)
- 5401.U10366 Copper Calorimeter