
CALORIMETER

074



CENTRE FOR MICROCOMPUTER APPLICATIONS

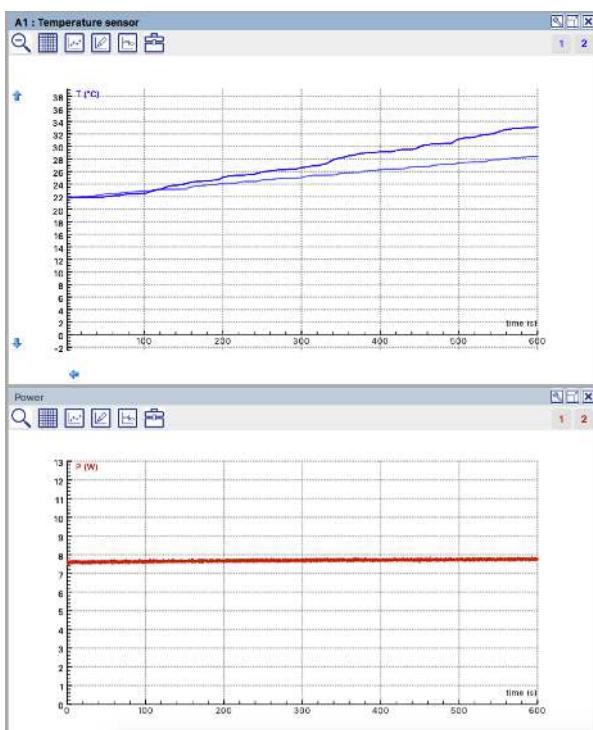
<https://cma-science.nl>

Short description

The CMA Calorimeter is a general device, which can be used in calorimetry experiments with the CMA Immersion Heater 019 (not included with the calorimeter). Inner vessel of this calorimeter is made of aluminium, outer vessel is made of plastic.

The calorimeter can be used for example in experiments to determine specific heat capacities of different liquids (water, vegetable oils). In such experiments the immersion heater is used to warm up the liquid and a temperature sensor is used to measure the temperature change. The graphs show an example of measurement results for such experiment:

1. Upper graph shows the temperature changes of 150 mL of water and 150 mL of olive oil heated in the calorimeter with the immersion heater.
2. The lower graph shows the calculated, based on the current and voltage measurements, power of the heater.



Check the Teaching Resources provided on the CMA website to find the ready-to-go activities in which this calorimeter can be used.

Warranty:

The Calorimeter 074 is warranted to be free from defects in materials and workmanship for a period of 24 months from the date of purchase provided that it has been used under normal laboratory conditions. This warranty does not apply if the product has been damaged by accident or misuse.

Note: This product is to be used for educational purposes only. It is not appropriate for industrial, medical, research, or commercial applications.

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