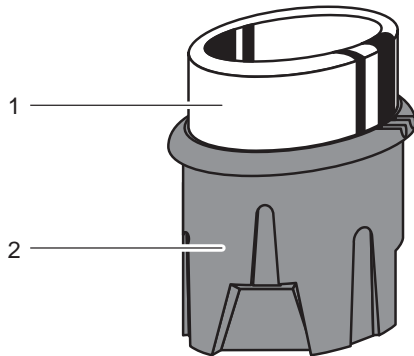


01/00-V5-Sel



## Instruction Sheet 386 48

### Dewar Vessel (386 48)

- 1 Glass mantle  
2 Plastic base

## 1 Description

The Dewar vessel calorimeter with base is used to hold liquids in which solids can be immersed for calorimetric measurements as desired, particularly in conjunction with the cover for Dewar vessel (384 161) or with the electric calorimeter attachment (384 20).

It consists of a highly evacuated double-walled glass mantle with reflective coating and has a low heat absorption and excellent insulation against heat loss.

## Safety notes

**Danger of implosion:** the Dewar vessel is a thin-walled, highly evacuated glass vessel which can break due to mechanical stresses.

- Do not knock or drop the Dewar vessel.
- Do not allow any hard objects to fall on or into the glass mantle.
- Do not scratch the glass mantle with sharp objects.

## 2 Technical data

### Glass mantle:

Filling volume:	250 ml
Inside diameter:	7 cm
Depth:	9 cm

### Heat absorption for a filling content of 200 ml):

Heat capacity:	approx. 100 J K <sup>-1</sup>
Water equivalent:	approx. 24 g

### General data:

Dimensions:	12 cm × 10 cm dia.
Weight:	220 g

## 3 Accessories

Cover for Dewar vessel	384 161
Electric calorimeter attachment	384 20

## 4 Operation

- For calorimetric measurements, fill with approx. 150 to 200 ml of liquid.
- Where applicable, take the heat absorption of the Dewar vessel (heat capacity or water equivalent) into consideration.