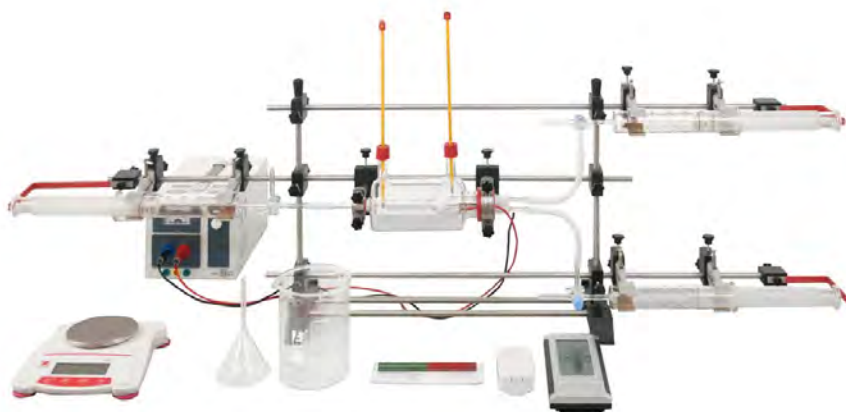


DETERMINATION OF THE HEAT OF FORMATION OF WATER

Mod. C-AV-22/EV



DESCRIPTION

The standard molar enthalpy of formation is defined as the heat of reaction that occurs in the direct formation of one mole of a pure substance starting from the pure elements at constant pressure. For the conversion of hydrogen and oxygen in the water, you can measure the standard enthalpies of formation using calorimetry.

TRAINING PROGRAM

- First law of thermodynamics
- Calorimetry
- Enthalpy of reaction
- Enthalpy of formation

COMPONENTS

- High voltage power supply, 0 - 10 kV
- Glass reactor and calorimetric insert
- Calorimetric insert cover
- 3 syringe holders
- 3 gas syringes, 100 ml with 3-way stopcock
- Precision balance 620 gr; 0.01 gr
- Steel cylinder for the storage of hydrogen
- Steel cylinder for the storage of oxygen
- Hydrogen reduction valve
- Reduction valve for oxygen
- Silicone pipes
- Weather station
- 2 laboratory thermometers
- Stir beads and magnet
- Funnel
- Beaker, 1000 ml
- Distilled water

REQUIRED (NOT INCLUDED)

- EVLAB DATALOGGER mod. EVS-EXP/EV including **SOFTWARE EVLAB WORKSPACE mod. SW-C-AV-22/EV** for a total control of interactive experiments
- 2 temperature sensors mod. EVS-15/EV
- PERSONAL COMPUTER



SUPPLIED WITH

THEORETICAL - EXPERIMENTAL HANDBOOK

