

CV50 ELECTROCHEMICAL CELL



The CV50 Electrochemical Cell is a versatile small cell made of DURAN heat resistant laboratory glass equipped with a heating jacket and 4 (optionally 5) standard cone sleeves 13.5 mm for insertion of most standardised electrodes, such as reference electrodes, gold electrodes, platinum electrodes and others. The cell can be operated within a wide temperature range, depending on the fluid used for heat transfer by the heating jacket.

The cell volume of nominally 50 ml will be suitable for usual voltammetric experiments. The cell can be used from 30 to 100 ml liquid volume, if smaller volumes are required, a suitable beaker inside the cell can be used. For use of electrodes which do not have a glass sleeve 14.5 mm, but a cylindrical shaft instead, different PTFE adapters are available.

Figure left:

CV 50, consisting of cell body (1), Teflon cell top (2), heater connections (3a, 3b), platinised titanium counter electrode (4), Haber - Luggin - capillary (5) and 2 standard sleeve openings (7,8).

In this special version, the counter electrode is situated in a separate compartment with glass frit, and an injection opening, closed by cock (6) was introduced.

CV50 ASSEMBLY KIT

Standard

Cell beaker 50 ml with heating jacket and Teflon top, with 4 sleeve openings 13.5 mm each

Options

Cover with 3 sleeves 13.5 mm, 2 sleeves 10 mm
PTFE cone adaptor 13.5 mm without bore
PTFE cone adaptor 13.5 mm with bore x.x mm (please specify)
Thermocouple protection tube with sleeve 10 mm, tube diameter 4 mm
Thermocouple protection tube with sleeve 13.5 mm, tube diameter 8 mm

Electrodes

Pt - electrode / Calomel reference electrode / AgCl reference electrode
Separate container for reference electrode / electrolyte bridge / Other electrodes on request

Stand

The cell comes with a rugged stainless steel / PVC - stand.