

Alpha Spectrometry Hardware - Other Options

There are various chambers on the market that provide vacuum environment for the sample and detector but where all other features such as bias voltage supply, amplifier or other are missing. This allows for maximum flexibility of integration into some existing systems. An example of such chamber is shown in the picture below.

Photo: ORTEC



Large area samples having diameter up to 4" can be accommodated in fixed and reproducible distance from the semiconductor detector which is screwed into the top of the chamber.

All electronics as well as vacuum are externally supplied to the chamber.

The solid chamber is mechanically quite sturdy and it is easily decontaminated if necessary.

A completely different approach to alpha spectrometry is realized in a small portable chamber that can be demounted into small and easily decontaminated parts. The sample holder distance from the detector can be adjusted by screwing up or down. A three-way vacuum manifold allows fast sample changing while the external pump continues to run. All electronics is provided externally.

Photo: SARAD GmbH

