

# VacuTube

Vacuum chamber for the Alpha spectroscopy

## Short description + Technical data



The VacuTube is a simple and cost efficient extension for the SARAD SPECTRA 50xx MCA-series to create a lab like alpha spectroscopy workbench. The unique construction saves space at the desk and enables a comfortable access to the sample holder. Decontamination is very easy because all chamber parts can be cleaned separately.

The cap of the VacuTube has been designed to use a standard detector with Mircodot (TM) connector together with the SARAD AMP01-03 preamplifier/shaping amplifier module. Both parts can be removed from the chamber rapidly and may be used in other applications too. A cross section of the chamber you will find below.

The vacuum is manually controlled by a 3-way valve, which allows to disconnect the chamber from the pump without losing the vacuum. The chamber is equipped with a reverse biased sample holder to avoid detector contamination and a vacuum indicator.

### Technical data

Sample holder	adjustable plate for 1" and 2" dia. samples (max. 45 mm sample distance)
Detectors	standard detectors up to 2000 mm <sup>2</sup>
Vacuum control	3 position valve (pump/hold/flush)
Electrical connection	mains power adapter for reverse bias
Vacuum connector	4 mm dia. quick lock connection at rear panel
Dimensions	243 x 195 x 150 mm (W x D x H)
Materials	anodised Aluminium

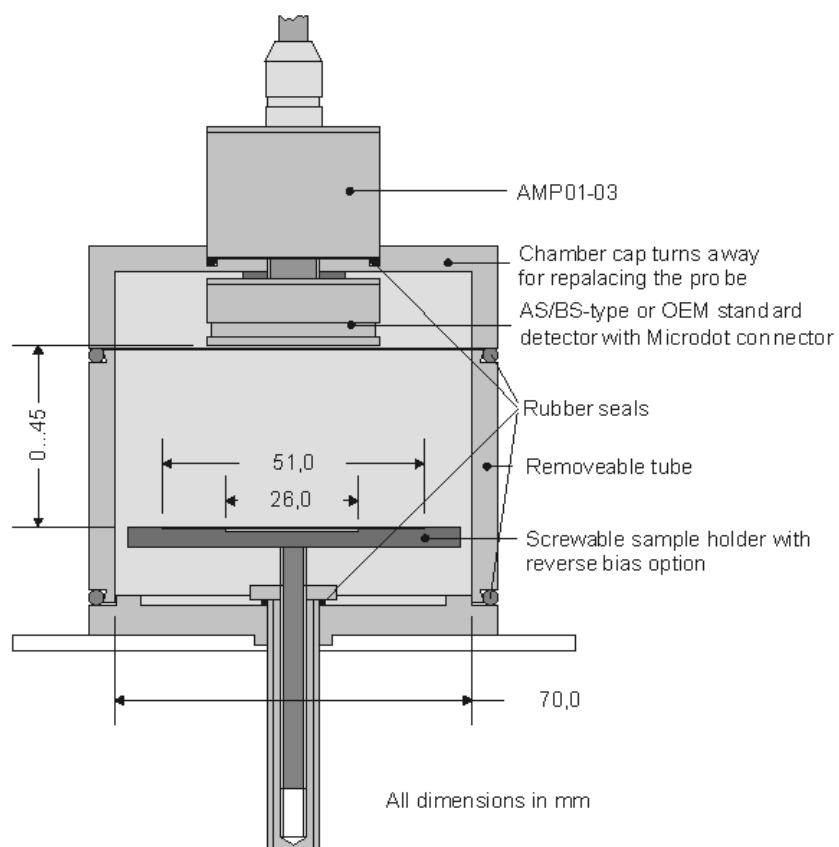
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## Cross section



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