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Roos® Chamber, 0.35 cm³

Type 34001

The Roos electron chamber from PTW, developed in cooperation with Dr. Roos, PTB-Braunschweig (National Laboratory of Germany), is used as a reference electron chamber. It is recommended by the IAEA for high precision electron dosimetry in radiation therapy. The chamber has a 4 mm wide guard ring to exclude any perturbation effect even at low electron energies.

The polarity effect is negligible (< 0.5 % at 10 MeV).

The energy response is only influenced by the stopping power ratios. The chamber is waterproof for absolute dose and depth dose measurements in a water phantom. The acrylic entrance window has a thickness of 1 mm. The nominal useful energy range is from 2 MeV to 45 MeV. A calibration certificate with a Co-60 calibration factor given in absorbed dose to water is included. Air density correction is required for each measurement. A radioactive check device with adapter is available as an option. The chamber cable length is 1.08 m.

Features:

- Precision plane-parallel reference chamber for absolute dosimetry of high-energy electron radiation
- Vented sensitive volume of 0.35 cm³
- Perturbation-free design and minimal polarity effect
- Suitable for use in water and in solid state phantoms