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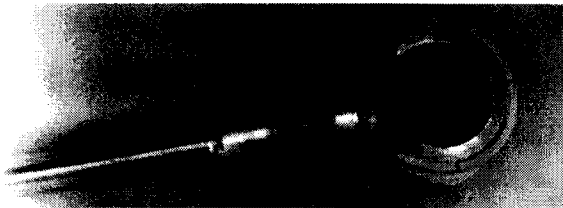
RPD Product Information

Item Number Description

300-745	Scanditronix / Wellhofer NACP Parallel Plate Chamber
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Technical description

Parallel Plate Chamber NACP



Applications

- ☐ absolute dosimetry of electron beams 2-50 MeV
- ☐ measurements in air, in solid or in water phantoms
- ☐ designed according to recommendations of the Nordic Association of Clinical Physicists (NACP) Acta Radiologica Oncology 19, 55

Features

- ☐ thin front wall minimizes contamination of the beam and allows measurements at shallow depth
- ☐ high accuracy even at low electron energies (perturbation factor very close to unity due to large guard ring)
- ☐ waterproof
- ☐ air-vented
- ☐ low polarity effect
- ☐ supplied with an individual factory calibration certificate and scientific papers

Material

- ☐ chamber encapsulation
Polystyrene (1.05 g/cm³)
- ☐ collecting electrode
Polystyrene graphitized
- ☐ front window
Graphite/Mylar foil (1.8 g/cm³)

Active Dimensions

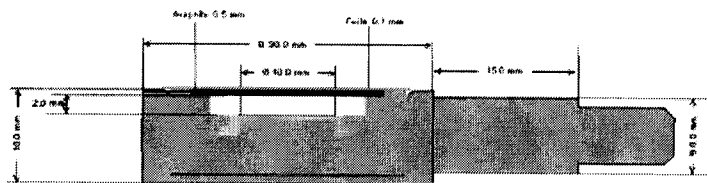
- ☐ volume (nominal) 0.16 cm³
- ☐ cylinder height 2.0 mm
- ☐ front window thickness
Graphite 0.5 mm
Mylar foil 0.1 mm
- ☐ diameter of inner electrode 10.0 mm
- ☐ guard ring width 3.0 mm
- ☐ polarity effect 0.5 %
(for all depths over the specified energy range)

Cable & Connector

- ☐ connector type BNC coaxial or triaxial
+ Banana or TNC triaxial
- ☐ cable length 2.0 m

Operational Data

- ☐ leakage current $< \pm 1 \times 10^{-14}$ A
- ☐ sensitivity 6×10^{-9} C/Gy
- ☐ radiation quality (e) 2 - 50 MeV
- ☐ polarizing voltage
- recommended ± 200 V
- maximum ± 400 V
- ☐ reference point in water 0.6 mm below the outer surface
- ☐ perturbation factor 1.000 ± 0.005
- ☐ long term stability $\pm 0.5\%$ for one year



* add 0.2 mm for tolerance if you intend to make adapters
dimensions in mm

Technical data subject to change without prior notice.