

Technical Data Sheet

“Farmer“ type Chamber EIC400, 0.6cc



- Description:

The ionization chamber EIC400 is a therapy ionization chamber for absolute dosimetry with measuring volume of 0.6 cc. The wall is made of graphite and the electrode of aluminium. The chamber volume is vented through the cable connector. EIC400 is delivered with a build-up cap and calibration certificate; available connector types are triaxial TNC or BNT.

- Intended use:

- Absolute Dosimetry in high energy photon and electron beams
- For use in solid plastic phantoms or in air

- Specifications:

- Air ionization chamber, thimble design, vented, acc. IEC 60731
- Fully guarded design
- A reliable chamber with well-known characteristics
- Supplied with calibration certificate for ⁶⁰Co calibration
- Measuring quantities: Absorbed dose to water, others on request
- Nominal energy range for photons and electrons: 100kV – 35MeV
- Typical response: 21 nC/Gy
- Chamber voltage: 300V – 500V max.
- Temperature range 10 – 40°C
- Humidity range 10 – 80 %
- Connector type BNC/TNC triaxial
- Length of connection cable 200 cm

- Material:

- Outer electrode Graphite (1.88 g / cm³)
- Inner electrode Aluminum (2.7 g / cm³)
- Build-up cap POM (1.4 g / cm³)

- Dimensions

- Active volume 0.6 cm³
- Total active length 23 mm
- Cylinder length 20 mm
- Wall thickness of build-up cap 4.0 mm
- Reference point on chamber axis, 13 mm from chamber tip
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