

Technical Data Sheet

“Farmer“ type Chamber EIC300, 0.6cc



- Description:

The ionization chamber EIC300 is a waterproof therapy ionization chamber for absolute dosimetry with measuring volume of 0.6 cc. The wall made of POM and the aluminum electrode makes the chamber rugged for everyday use. The chamber volume is vented through the cable connector. EIC300 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 water, solid plastic phantoms or in air

- Specifications:

- Air ionization chamber, thimble design, water proof, vented
- Fully guarded design
- A reliable chamber with well-known characteristics and rigid construction
- 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 POM (1.4 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