

Technical Data Sheet



EPC300 Plane Parallel Chamber 0.046 cc

• Description:

The ionization chamber EPC300 is a waterproof therapy ionization chamber for absolute dosimetry in high-energy electron beams. The measuring volume of 0.046 cc and mechanical design is close to the recommendations by Prof. Markus. The entrance window is made of 1mm Shonka, which gives the chamber extra rigidity. The chamber volume is vented through the cable connector. EPC300 is delivered with a protection cap and calibration certificate.

- Intended use:
 - Absolute Dosimetry in high energy electron beams
 - For use in water, and solid plastic phantoms
- <u>Specifications:</u>
 - Air ionization chamber, plane parallel design, water proof, vented
 - Fully guarded design
 - Supplied with calibration certificate for ⁶⁰Co calibration
 - Measuring quantity: Absorbed dose to water
 - Nominal energy range for photons and electrons: 2 35MeV
 - Useful field size: 3x3 to 40x40 cm²
 - Typical response: 1,7 nC/Gy
 - Chamber voltage: 100V 300V max.
 - Temperature range 10 40°C
 - Humidity range 10 80 %
 - Connector type
 - Length of connection cable
- <u>Material:</u>
 - Outer electrode
 - Inner electrode
 - Build-up cap
- Dimensions
 - Active volume
 - Cylinder height
 - Wall thickness
 - Diameter of inner electrode
 - Effective measure point in water
 - Effective measure point in air

Shonka C552 (1.76 g / cm³) PEEK graphitized (1.32 g / cm³) PMMA (1.19 g / cm³)

0.046 cm³

BNC / TNC triaxial

0.6 mm

200 cm

- 1.0 mm
- 9.9 mm
- 1.0 mm below the chamber surface
- 1.3 mm below the chamber surface

07/12/2015

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Rev.2

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