

EIC400 Farmer-type 0.6 cc Ionization Chamber

The EIC400 ionization chamber 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. Available connector types are triaxial TNC or BNC.

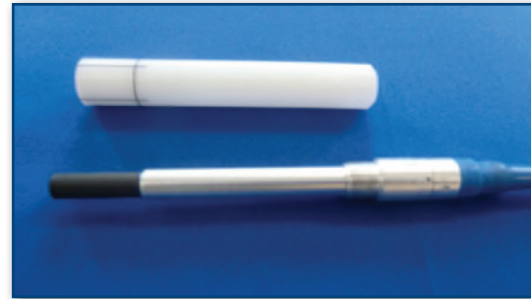
Intended Use

- ▶ 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
- ▶ Calibration certificate for ⁶⁰Co calibration available at an additional charge.
- ▶ Measuring quantities — Absorbed dose to water, others on request

Nominal energy range for photons and electrons 100 kV – 35 MeV
 Typical response 21 nC/Gy
 Chamber voltage 300 – 500 V max.
 Temperature range 10 – 40° C
 Humidity range 10 – 80%
 Connector type BNC/TNC triaxial
 Length of connection cable 200 cm



Materials

Outer electrode Graphite (1.88 g / cm³)
 Inner electrode Aluminium (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

CNMC/DS EIC400 Farmer-type 0.6cc IC(1) v.06.2019

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