

Technical description

Farmer Type Chamber FC65-G



Application

- absolute dosimetry in radiation therapy
- traditional chamber construction for absolute dosimetry in x-rays and high energy photon fields
- standard reference detector for reference dosimetry and scientific applications

Features

- air ionisation chamber
- chamber with graphite wall, for all applicable radiation conditions
- waterproof
- vented through waterproof sleeve
- fully guarded
- PTB approved [15.101 / 97.04]
- supplied with individual factory calibration certificate and user's guide

Material

- outer electrode
Graphite (1.82 g/cm³)
- inner electrode
Aluminium (2.70 g/cm³)
- build-up cap for ⁶⁰Co
POM (1.42 g/cm³)

Active Dimensions

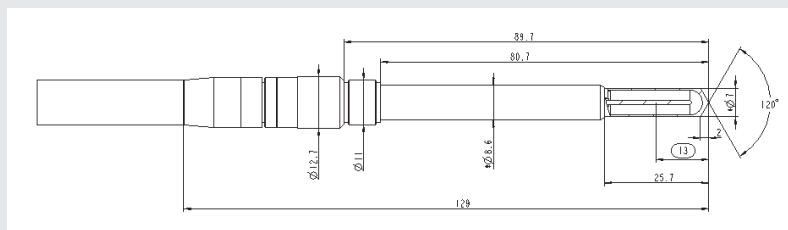
- volume (nominal) 0.65 cm³
- total active length 23.1 mm
- inner diameter of cylinder 6.2 mm
- wall thickness 0.4 mm
- diameter of inner electrode 1.0 mm
- wall thickness of build-up cap for ⁶⁰Co 3.9 mm

Cable & Connector

- connector type TNC triaxial
- cable length 1.40 m

Operational Data

- leakage current < ± 4 × 10⁻¹⁵ A
- sensitivity 21 × 10⁻⁹ C/Gy
- radiation quality (e⁻) 1.3 MeV - 50 MV
- polarising voltage + 300 V
- reference point
w/o build-up cap 13 mm from the distal end of the chamber
- reference point
with build-up cap 17 mm from the distal end of the build-up cap for ⁶⁰Co



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

Technical data subject to change without prior notice.

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