

# SNC350p™

## A Proven Solution for Electron Reference Dosimetry

SNC350p is a water-proof, well-guarded, parallel-plate ionization chamber with a design that minimizes perturbation effects as described by Dr. M. Roos et al. (IAEA TRS-381). It is intended for reference, field, and scanning dosimetry of therapeutic electron beams.



### Features and Benefits

- Conforms to the design principles as stated by Dr. Roos
  - Reduces in-scattering perturbation effects
  - Capable of being used with electrons, including low energy beams (< 10MeV) per AAPM's TG-51 and IAEA's TRS-398
- Reference-class dosimeter meeting recognized standards of performance (IEC 60731). May be used to cross calibrate field-class dosimeters
- Vented to provide air-density correction and eliminate need for radioactive stability check device
- White chamber body allows easy visualization of the setup relative to the crosshairs and lasers
- Well Guarded and Fully Guarded
- Minimal wait time after polarity change
- No need for secondary water-proofing
- Triaxial BNC and TNC connector options available
- Custom fitted and travel-safe storage case



SNC350p\_D060215

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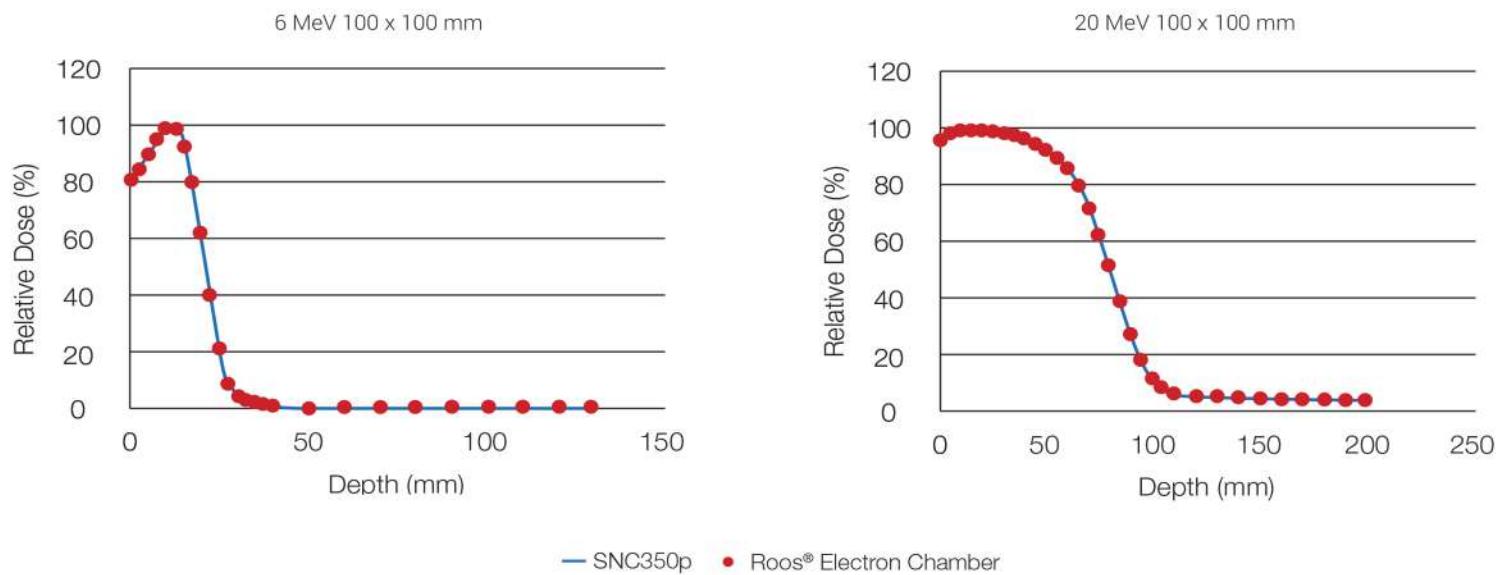
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## Chamber Comparisons



## Specifications

**Sensitive Volume:** (cm<sup>3</sup>) 0.388

0.05 Paint

**Entrance Window:** (mm) 1.00 PMMA

0.02 Carbon

**Reference Point:** (mm) 1. Below Window Surface

**Collection Volume Height:** (mm) 2.0

**Collector Diameter:** (mm) 15.6

**Guard Ring Width:** (mm) 4.1

**Polarity Effect:** Within 1.000 (±) 0.01

**Max Dose Rate for:** (Gy/s)

≥ 99.5 % Saturation 5.2

≥ 99.0 % Saturation 10.4

**Max Dose Per Pulse for:** (mGy)

≥ 99.5 % Saturation 0.46

≥ 99.0 % Saturation 0.92

**Radiation Quality:** Photons: Co-60 to 25 MV  
Electrons: 5 MeV to 25 MeV

**Field Size:** (mm) Minimum: 40 x 40  
Maximum: 400 x 400

Triaxial Cable  
with Tubing



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