

SNC350p™

A Proven Solution for Electron Reference Dosimetry

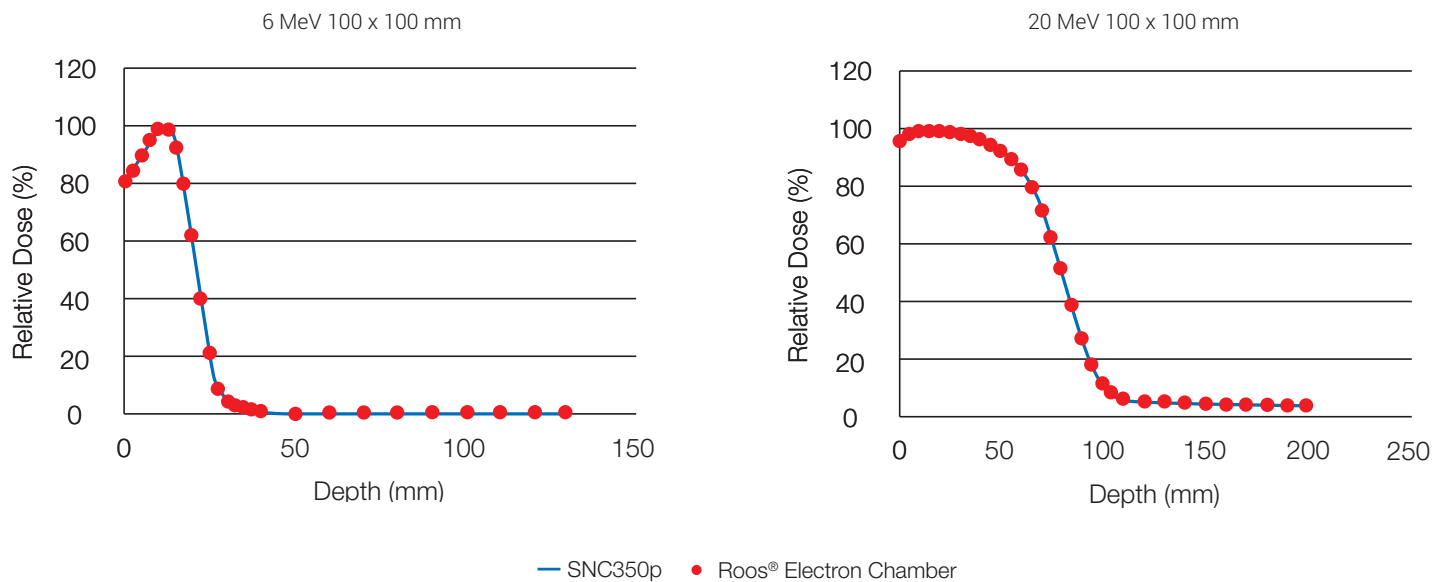
SNC350p is a water-proof, well-guarded, parallel-plate ionization chamber with a design that minimizes perturbation effects as described by Dr. M. Roos et al. (IAEA TRS-381). It is intended for reference, field, and scanning dosimetry of therapeutic electron beams.



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

Chamber Comparisons



Specifications

Sensitive Volume: (cm³)	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	

