



RC0.6CT
The Chamber for Computed Tomography Dose Index (CTDI)

0.6cc thimble chamber as described in AAPM Report No. 111 "Comprehensive Methodology for the Evaluation of Radiation Dose in X-ray Computed Tomography".

- EXPOSURE RATE DEPENDENCE: $\pm 2\%$, $5e-4$ mGy/s to $2e+3$ mGy/s
- ENERGY DEPENDENCE: $\pm 5\%$, 40 keV to 1.33 MeV
- BIAS: Nominal +300 VDC (max +600 VDC)
- ELECTRICAL LEAKAGE:* $< 5e-15$ A with +300 VDC bias, using 2m triax cable extension
- CONSTRUCTION: C552 air-equivalent material & electrode; polyacetal exterior cap; 0.6 cm³ active volume; 3 m, low-noise triax cable; 0.28 kg

*cable length dependent

Nominal Chamber Volume and Sensitivity ($\pm 10\%$)

Chamber Model	Volume cm ³	C/mGy 20 °C	C/mGy 22 °C	C/R 20 °C	C/R 22 °C
RC0.6CT	0.6	2.1E-11	2.1E-11	1.9E-10	1.9E-10

