



10XF-3CT – lonization Chamber

Quality Assurance in Medical Imaging Beam QA – CT

> Life, Science.

10XF-3CT - Ionization Chamber

The 10XF-3CT is designed for Computed Tomography Dose Index (CTDI) and DLP measurements.

Key benefits

- _ Flat energy response covering the total active chamber length
- _ High confidence with individual factory calibration sheet

10XF-3CT is the ionization chamber for measurements on CT scanners

- _ Air ionization chamber
- **_** Homogeneous sensitivity over the entire active length of the chamber
- Provided with protective shielding (guarded)
- _ Delivered with an individual calibration document



Material	
External electrode	C552
Inner electrode	C552
Connector	7-pin multi plug connector
Cable	2 m flexible, low noise
Size	
Active volume	3 cm ³
Total active length	100 mm
Outer diameter of the external electrode	9 mm
Operating Data	
Leakage current	< ± 4 x 10 ⁻¹⁵ A
Measuring range for CT beam quality	RQR 8 - RQR 10 100 kV - 150 kV
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	RQR 8 - RQR 9 100 kV - 120 kV
Calibration factor [typical]	$N_{D,K} = 72$ mGy cm/nC [120 kV/4.5 mm Al HVL]
Sensitivity	1.11 nC/ Gy
Dose measuring range	0.015 mGy - 15 Gy
Dose rate measuring range	0.15 mGy/s - 0.05 Gy/s
Dose length measuring range	0.15 mGycm - 150 Gycm
Dose rate length range	1.5 mGycm/s - 0.5 Gycm/s
Uncertainty	< 5 %
Calibration reference	RQT 9: in the chamber axis at the center of the cavity volume
Beam incidence direction	the central beam axis is perpendicular to the chamber axis

IBA Dosimetry

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