



INDEPENDENT X-RAY
QUALITY ASSURANCE

Use with

Piranha Cobia



RTI CT Ion Chamber 30 cm General Specifications

30 cm Ionization Chamber for CTDI on wide beams

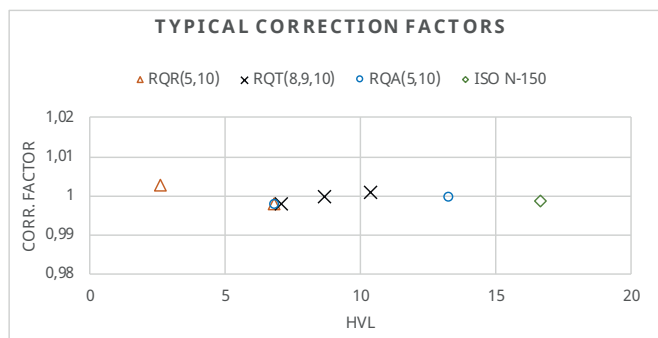
The RTI CT Ion Chamber 30 cm is a rugged, cylindrical pencil-shaped vented ionization chamber for CTDI measurements on wide CT beams. The chamber is intended for dosimetry on CT scanners in a phantom or free-in-air. CT dose index, CTDI, can be measured in accordance with IEC 61223-2-6.

The CT ion chamber can be connected via RTI Chamber Adapter to the Piranha or to the Cobia.

Reliable Dosimetry

The RTI CT Ion chamber 30 cm has the same outstanding characteristics as the 10 cm long RTI CT Ion chamber, with an energy linearity, within 0.5% in the range 70 - 150 kV for the IEC 61267 radiation qualities RQR 5 to 10, RQA 5 to 10, and RQT 8 to 10, and ISO N-150.

With an effective length of 30 cm, dosimetry at wide beams becomes very accurate.



General Specifications

| | |
|-------------------|--------------------------|
| Art No | 9730026-00 |
| Connector type | LEMO triaxial |
| Cable | 2 m, low noise triaxial |
| Active volume | 16 cm ³ |
| Active length | 300 mm |
| Diameter | 12 mm, 12.6 incl O-rings |
| Typical leakage | ±20 fA |
| Radiation quality | 70 - 150 kV |
| Sensitivity | 30 mGycm/nC |
| Energy dependence | ±1 % |

with RTI Chamber Adapter

| | |
|----------------|-------------------------|
| Air kerma rate | 0.3 mGycm/s to 3 Gycm/s |
| Uncertainty | ±5 % or ±0.03 mGycm/s |

Specifications in this document may be changed without notice