INDEPENDENT X-RAY
QUALITY ASSURANCE

Use with

☑ Mako ☑ Piranha ☑ Cobia

RTI CT Ion Chambers 10 cm | Specifications

10 cm Ionization Chamber for CTDI Measurements

The RTI CT Ion Chamber 10 cm is a rugged, cylindrical, pencil-shaped vented ionization chamber designed for CTDI measurements. It is intended for measuring and monitoring the exposure output level of CT scanners, either in a phantom or free-in-air. CT Dose Index (CTDI) can be measured in accordance with IEC 61223-2-6.

The RTI CT Ion Chamber offers outstanding 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, RQT 8 to 10, and ISO N-150.

With a precisely defined effective length (100 ±0.5 mm), the chamber enables accurate dosimetry in wide beams, even when repositioning is required. The optional LoniMover further enhances positioning accuracy and efficiency.

Rubber O-rings provide secure and precise placement in the CTDI phantom. The chamber's length and flat ends align perfectly with the edges of a 15 cm wide CTDI phantom, eliminating the need for additional adapters to match the diameter of the holes.

General Specifications

Art No	9730025-00 (For Piranha and Cobia) 9730025-01 (For Mako)
Connector type	LEMO triaxial
Cable	2 m, low noise triaxial
Active volume	5.3 cm^3
Effective length	10 cm
Diameter	12 mm, 12.6 incl O-rings
Typical leakage	±20 fA
Radiation quality	70 - 150 kV
Sensitivity	30 mGycm/nC
Energy dependence	±1 %

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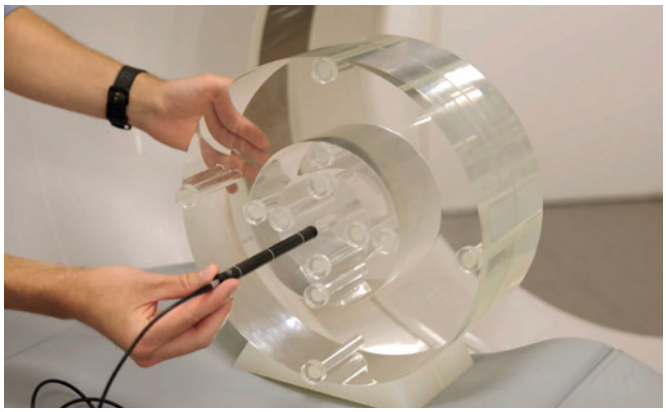

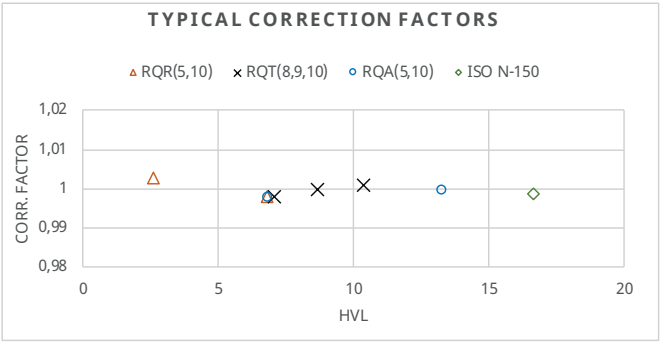

Specifications

Air kerma rate	0.3 mGycm/s – 3 Gycm/s
Uncertainty	±5 % or ±0.03 mGycm/s

*Valid for Mako, Piranha and Cobia meters

Mako Ion Chamber Module

Art No 9765021-00

The Mako Ion Chamber Module connects RTI Ion Chambers (such as CT Ion Chambers, DAP Chamber and Ion Chamber Magna 1cc) to the Mako System. Automatic temperature and pressure compensation are built in. Mako Ion Chamber Module allows you to connect other brands of Ion Chambers as well.

Mako PI Dongle – for existing Ion Chambers

Art No 9765021-05

The Mako PI (Probe Identifier) Dongle is needed when connecting Ion Chambers to the Mako Ion Chamber Module. It contains the calibration data for your Ion Chamber. All RTI Ion Chambers (CT, DAP, Magna) are available in Mako versions where the PI Dongle is included. *This article is for customers with existing ion chambers that they want to connect to the Mako system.*