



CTDI Phantom sets by Leeds Test Objects General Specifications

The CT dosimetry phantom

The CTDI Phantom sets are designed to facilitate quality assurance testing of computed tomography (CT) systems. These sets simulate the head and body of both adult and pediatric patients, and are constructed from two or three nested PMMA cylinders. The phantom cylinders are intended for measurements of the CT dose index (CTDI) and the dose profile of the CT system.

Included in each set are PMMA pegs and a positioning sponge for each phantom cylinder, which enable accurate placement of the phantom within the CT scanner. The sets also come with a hard case that features a built-in trolley for convenient storage and transportation. Overall, the CTDI Phantom sets offer a reliable and effective solution for evaluating the performance of CT systems.

Two parts kit: 16 and 32 cm diameter.

Three parts kit: 10, 16 and 32 cm diameter.

Both the RTI CT Ion Chamber, Art. No: 9730025-00 and CT Dose Profiler, Art. No: 9730013-00 – fit in the phantom.

Reliable dosimetry

TO CTDI enables the following tests to be made:

- CTDI₁₀₀ (centre)
- CTDI₁₀₀ (peripheral)
- CTDI_w (weighted CTDI₁₀₀)
- CTDI_{vol} (weighted CTDI_w)

Specifications

Art. No	9705125-00 (Two parts) 9705130-00 (Three parts)
Pediatric head diameter*	10 cm
Adult head diameter	16 cm
Body diameter	32 cm
Cylinder length	14 cm
Hole diameter	1.3 cm
Material	PMMA
Density	1.19 g/cm ³
Refractive Index n _{20/D}	1.49

Designed in accordance with standards IEC 61223-3-5, IEC 61223-3-6, and IEC 60601-2-44.

**Not included in the 2 parts kit.*

Specifications in this document may be changed without notice.



RTI CT Ion Chamber



CT Dose Profiler