QRM-oval-CTDI-CTWater[®]

A WATER-equivalent dosimetry phantom, traced back on the standards for CTDI evaluation in **Computed Tomography specialy** designed to mimic the human body shape.

QRM-oval-CTDI-CTWater[®] dosimetry phantom is manufactured from CTWater[®], a proprietary resin which exhibits the same x-ray attenuation characteristics as liquid water in the range of 80 kV to 140 kV tube voltage.

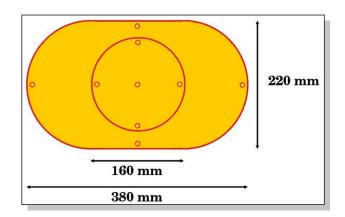
The phantom is constructed in a modular fashion with a smaller inner cylinder which tightly fits into a larger outer oval cylinder. Both cylinders offer four through holes near the perimeter to accomodate standard CT dose probes. Supplied are nine massive rods, made from CTWater[®], to plug the holes not in use, and adapter plugs to house diverse pencil shaped ion chambers. Further adapter plugs can be manufactured on customers specification.

Specifications

Base material	
diameter body	38 x 22 cm ²
diameter head	16 cm
depth	15 cm
hole positions according to [2, 3]	
A seperate plug housing your prefered ion	
chamber will be included!	



Oval-CTDI-Dosimetry-Phantom



Schematic view of the phantom

References

- [1] Evaluation and comparison of water-equivalent CTDI dosimetryphantoms Erb, J.; Schmidt, M.; Schmidt, B.; Kalender, W.A. Engineering in Medicine and Biology Society, 2000. Proceedings of the 22nd Annual International Conference of the IEEE Volume 1, Issue , 2000 Page(s):102 - 105
- [2] Department of Health and Human Services, Food and Drug Administration. 21 CFR Part 1020: Diagnostic x-ray systems and their major components; amendments to performance standard; Final rule. Federal Register, 49, 171 (1984)
- [3] IEC 1223-2-6 Evaluation and routine testing in medical imaging departments. Part 2-6: Constancy tests - X-ray equipment for computed tomography