## QRM-oval-CTDI-CTWater<sup>®</sup>

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<sup>®</sup> dosimetry phantom is manufactured from CTWater<sup>®</sup>, 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<sup>®</sup>, 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.

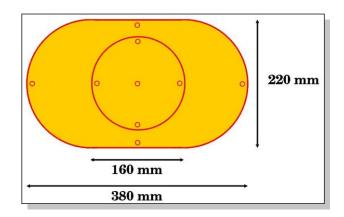
## **Specifications**

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

## References

CTD

Oval-CTDI-Dosimetry-Phantom



Schematic view of the phantom

- [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) 深圳市展业达鸿科技有限公司
- [3] IEC 1223-2-6 Evaluation and routine testing in medical imaging departments. Part 2-6: Constancy tests - X-ray equipment for computed (例目同号) 0755-22934005 (座机) tomography

ORM GmbH

地址:深圳市福田区八卦二路八卦岭工业区615栋419

邮箱:hongqi@thingstet.com

网址:www.thingstest.com