

Elliptical Jaszczak Phantom™

Model ECT/ELP/P

Main Features

- Jaszczak phantom with elliptical body shape

Main Applications

- For use with high spatial resolution SPECT and PET systems
- Evaluation of data acquisition using non-circular orbit
- System performance evaluation over larger field-of-view (collimator, artifacts, calibration reconstruction parameters)
- Study of the effects of regional variation in intrinsic system response using uniform portion of the elliptical cylinder
- Evaluation of the accuracy of body contour and attenuation compensation algorithms
- Evaluation of lesion detectability using spheres of different diameters
- Study of the effects of finite spatial resolution & Compton scatter on image quality
- Acceptance testing
- Routine quality, assurance and control
- Research

Specifications of Cylinder

All clear material: PMMA

Cylinder inside diameter along major axis:
~ 305 mm

Cylinder inside diameter along minor axis:
~ 221 mm

Cylinder inside height: ~ 186 mm

Cylinder wall thickness: ~ 6.4 mm

Volume of empty cylinder: ~ 9.5 liter

Volume of cylinder with cold rod insert and cold spheres: ~ 8.3 liter

Specifications of Insert and Spheres

All clear material: PMMA

Rod diameters: 6.4, 7.9, 9.5, 11.1, 12.7 and 19.1 mm*

Height of rods: 8.8 cm

Solid sphere diameters: 12.7, 15.9, 19.1, 25.4, 31.8 and 38 mm

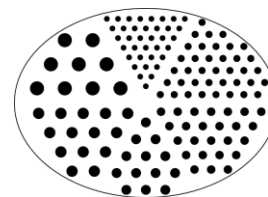
Distance from sphere center to mounting surface: 127 mm

**For more details see Cold Rod Inserts*

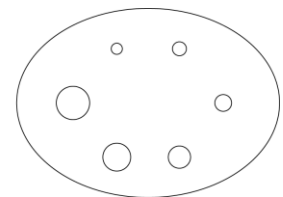
Shipping

Carton: 13" x 13" x 13"

Weight: 10lbs.



Elliptical Cold Rods



Elliptical Cold Spheres

Components of Elliptical Jaszczak Phantom™

Elliptical Jaszczak Phantom™

Elliptical Jaszczak Phantom™

