

NEMA PET Phantom™

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Model PET/NEMA94/P

Main Features:

- The NEMA PET Phantom™ (NU2-1994) is designed in accordance with the recommendations by the National Electrical Manufacturers Association (NEMA) to standardize the measurement of performance of PET*

Main Applications:

- PET acceptance testing with NEMA standard
- Evaluation of count rate, uniformity, scatter fraction, attenuation compensation, and scatter compensation of ECT systems
- Research

Specifications:

Cylinder outside diameter: 20.3 cm

Cylinder inside diameter: 19.7 cm

Wall thickness: 3 mm

Delrin Insert diameter: 5 cm

Fillable Insert inside diameter: 4.3cm

Fillable Insert height: 18.3 cm

Fillable Insert volume: ~ 260 mL

Line Source diameter: ~ 1 mm

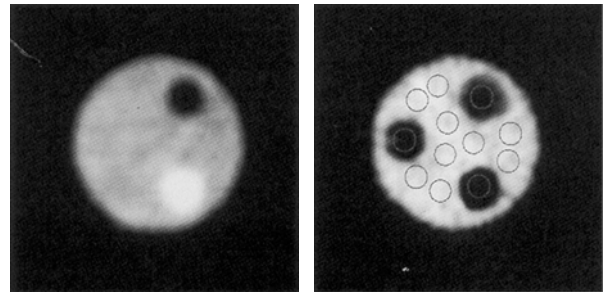
Line Source height: 1.4 cm

- * Karp JS, Daube-Witherspoon ME, Hoffman EJ et al. Performance standards in positron emission tomography, J Nucl Med, 32:2342-2350.

- * *Performance Measurements of Positron Emission Tomographs*, NEMA Standards Publication NU2, National Electrical Manufacturers Association (NEMA), Washington, D.C., 1994.



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Attenuation Correction Test

Shown are attenuation image (left) with three inserts and emission image (right) after attenuation correction (with region-of-interest shown for data analysis).

