

## NEMA 94 PET Phantom (NU 2-1994)<sup>™</sup>

Model PET/NEMA-94/P

### Main Features

- The NEMA 94 PET Phantom (NU 2-1994)<sup>™</sup> 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

All clear material: PMMA

Cylinder outside height with lid: 229 mm

Cylinder outside height without lid: 216 mm

Cylinder outside diameter: 203 mm

Cylinder inside diameter: 197 mm

Wall thickness: 3 mm

Teflon® Insert diameter: 51 mm

Fillable Insert outside height: ~ 203 mm

Fillable Insert inside height: ~ 185 mm

Fillable Insert outside diameter: ~ 51 mm

Fillable Insert Inside diameter: ~ 45 mm

Line Source diameter: ~ 1 mm

Line Source height: ~ 184 mm

### Volume

Empty: 6.5 liters

W/3 inserts: ~ 4.2 liters

Volume of each Fillable Insert: ~ 260 mL

### Shipping

Carton: 13" x 13" x 13"      Weight: 10lbs.

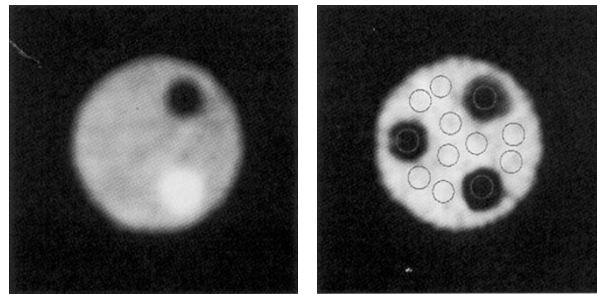
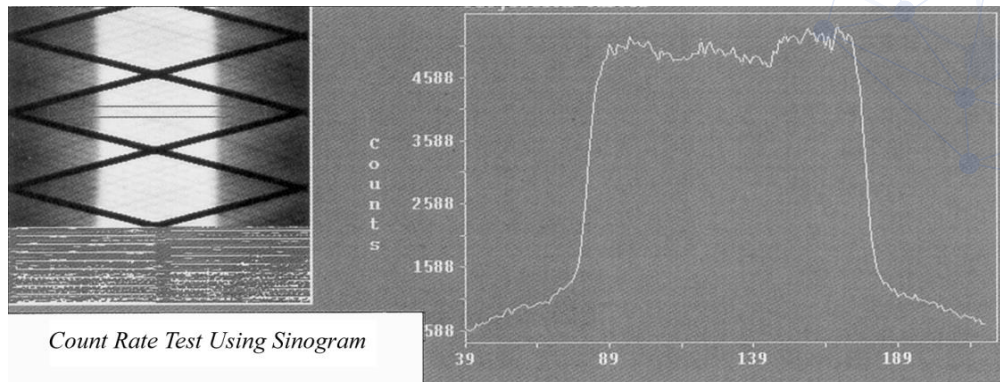
**"Flangeless" version available!**  
**Call for information!**



NEMA 94 PET Phantom (NU 2-1994)<sup>™</sup>

*\*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.*



### *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).*