

NEMA IEC PET Body Phantom (NU 2-2018)[™]

Model PET/NEMA-IEC-BODY/P

Main Features

- The NEMA IEC PET Body Phantom Set[™] consists of a body phantom, a lung insert and an insert with six spheres with various sizes
- It is designed in accordance with the recommendations by the International Electrotechnical Commission (IEC) and modified by the National Electrical manufacturers Association (NEMA)
- It is recommended for use in the evaluation of reconstructed image quality in whole body PET imaging
- Spheres are fillable from outside the closed cylinder

Main Applications

- Simulation of whole-body imaging especially using PET and camera-based coincidence imaging techniques
- Evaluation of reconstructed image quality in whole-body PET and camera-based coincidence imaging
- Determination of the coincidence count rate characteristics in brain and cardiac imaging
- Evaluation of the relationship between true coincidence count rate and radioactivity
- Determination of the address errors caused by address pile up
- Evaluation of the count loss correction scheme
- Research

Specifications of Main Cylinder

All clear material: PMMA
Exterior length: ~ 217 mm
Interior length: ~ 193 mm
Interior anteroposterior: ~ 221 mm
Interior lateral: ~ 290 mm
Wall thickness: ~ 3.2 mm
Volume of empty cylinder: ~ 9.7 l



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Specifications of Insert and Spheres

All clear material: PMMA
Fillable Insert outside height: ~ 203 mm
Fillable Insert inside height: ~ 185 mm
Fillable Insert outside diameter: ~ 51 mm
Fillable Insert Inside diameter: ~ 45 mm
Volume of Fillable Insert: ~ .26 liters

**International Standard: Radionuclide imaging devices – Characteristics and test conditions – Part 1: Positron emission tomographs, International Electrotechnical Commission (IEC), 61675-1, Geneva, Switzerland, 1998.*

**Performance Measurements of Scintillation Cameras, NEMA Standards Publication No. NU2, National Electrical Manufacturers Association (NEMA), Washington, D.C., 2001*

Shipping

Carton: 13" x 13" x 13"

Weight: 9lbs.

PET Body / CT Hollow Spheres Set 6

Model PET/BODY-CT-HS/SET6

Specifications

Fillable Spheres (6) inner diameter: 10 mm,
13 mm, 17 mm, 22 mm, 28 mm, and 37 mm

Distance from sphere center to mounting
surface: ~ 70 mm

Shipping

Carton: 7" x 3" x 3"

Weight: 1lbs.



NEMA IEC PET Body / CT Lid with Hollow Spheres