

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

Model PET/NEMA-IEC-BODY/P

Main Features

- The NEMA IEC PET Body Phantom SetTM 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



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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 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 Positron Emission Tomographs (PETS), NEMA Standards Publication NU 2-2018, National Electrical Manufacturers Association (NEMA), Washington, D.C.*

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

Shipping

Carton: 13" x 13" x 13" Weight: 9lbs.



Externally Fillable Hollow Spheres

Specifications

Model No:	Inner Diameter
EHS-100:	10 mm
EHS-130:	13 mm
EHS-170:	17 mm
EHS-220:	22 mm
EHS-280:	28 mm*
EHS-370	37 mm

Distance from sphere center to mounting surface: 70 mm ± 1 mm



Shipping

Carton: 7" x 3" x 3"

Weight: 1lb.

**Purchase an extra 28 mm Sphere to make your PET/NEMA-IEC-BODY/P compliant with NEMA Standard NU 1-2018.*

Available in Convenient Sets

Specifications

Model No:	Spheres included
EHS-SET6-A:	10 mm, 13 mm, 17 mm, 22 mm, 28 mm, 37 mm (For NEMA NU 2 PET Standard)
EHS-SET6-B:	10 mm, 13 mm, 17 mm, (2) ea of 28 mm, 37 mm (For NEMA NU 1-2018 Gamma Camera Standard)