NEMA IEC Body Phantom Set™

NEMA IEC Body Phantom Set™
Model PET/IEC-BODY/P

Main Features:
- The NEMA IEC 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.

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:
Interior length of phantom: 180 mm
Fillable spheres (6) inner diameter: 10 mm, 13 mm, 17 mm, 22 mm, 28 mm, and 37 mm.
Distance from sphere plane to inside wall: 70 mm
Volume of empty cylinder: 9.7 liters

Cylindrical insert dimension:
Outside diameter: 51 mm
Length: 180 mm
