

Lung Spine Phantom Lid™

Lung-Spine Phantom Lid™

Model ECT/LUNG/I

Main Features:

- Designed to be used exclusively with the Elliptical ECT Phantom™ (Model ECT/ELP/P)
- Consists of two lung chambers that can be packed with Styrofoam® beads and when filled with a radioactive solution simulate lung tissue with density of $\sim 0.3 \text{ gm/cm}^3$ and any desirable radioactivity concentration
- A Teflon® rod is used to simulate the spine
- Optional Cardiac Insert™ (Model ECT/CAR/I) can be purchased separately to be used with the Lung Spine Phantom Lid™
- Optional Fillable Spine Insert, see below

Main Applications:

1. Evaluation of cardiac ECT data acquisition and reconstruction methods
2. Quantitative evaluation of non-uniform attenuation and scatter compensation methods
3. Research

Specifications:

All clear material: PMMA

Diameter of Teflon® rod (spine): 38 mm

Length of Teflon® rod (spine): 17.8 cm

Volumes

Left lung (w/o Styrofoam® beads): ~ 0.9 liter

Right lung (w/o Styrofoam® beads): ~ 1.1 liter

Left lung (w/ Styrofoam® beads): ~ 0.36 liter

Right lung (w/ Styrofoam® beads): ~ 0.44 liter

Fillable Spine Insert™

Spine Insert, With Liquid Bone™

Model ECT/FIL-SPINE/I (user filled)

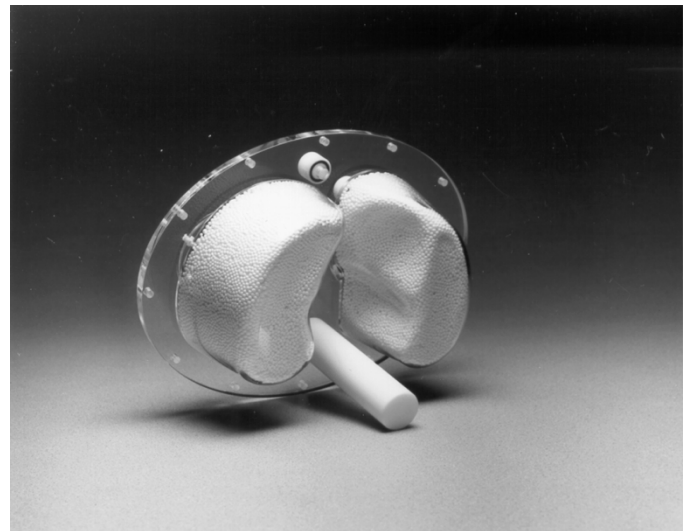
Model ECT/BONE-SPINE/I (pre-filled)

Main Features:

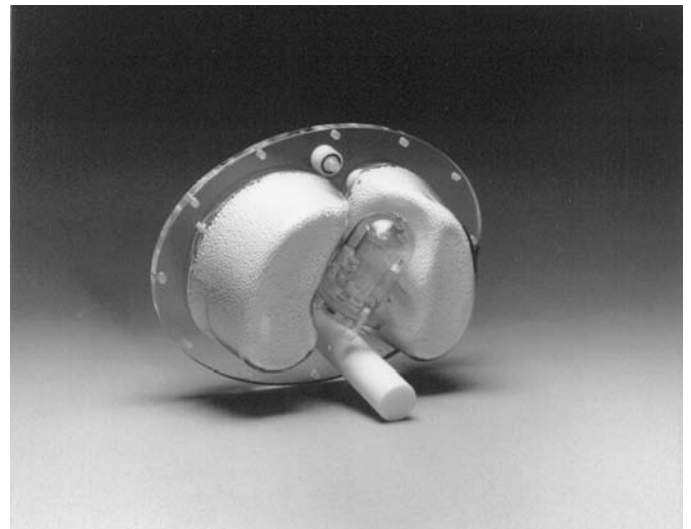
- Designed to be used with either the Anthropomorphic Torso Phantom™ (Model ECT/TOR/P)

Main Applications:

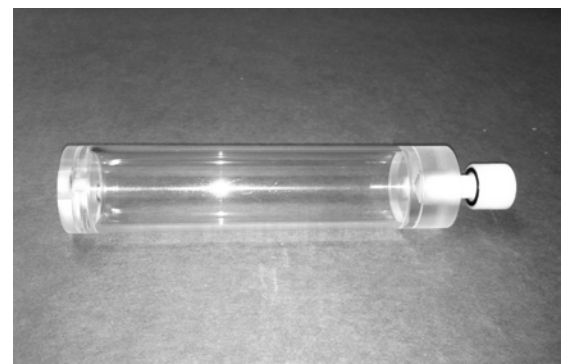
- Improved spine attenuation characteristic over Teflon® rod



Lung-Spine Phantom Lid™



Shown with optional Cardiac Insert™



Fillable Spine Insert™

Specifications:

All clear material: PMMA

Outside height: 19.0 cm

Inside height: 15.2 cm

Outside diameter: 4.5 cm

Inside diameter: 3.8 cm

Volume: ~ 170 cc