

Elliptical Lung-Spine Phantom™

Model ECT/LUNG-SPINE/P

Main Features

- Includes spine and fillable lung inserts
- Lung inserts can be filled with polystyrene beads and water to simulate lung tissue density $\sim 0.3 \text{ gm / cm}^3$
- Optional Cardiac Insert™ (Model ECT/CAR/I) may be purchased separately
- Simulates anatomical structures and radioactivity distributions in upper torso of human

Main Applications

- Evaluation of acquisition and reconstruction methods for cardiac and lung ECT studies
- Evaluation of non-uniform attenuation and scatter compensation methods
- Research

Specifications

All clear material: PMMA

Cylinder inside diameter along major axis: 305 mm

Cylinder inside diameter along minor axis: 221 mm

Cylinder inside height: 186 mm

Cylinder wall thickness: 6.4 mm

Volumes

Empty cylinder: ~ 9.5 liters

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

Right lung (w/o polystyrene beads): ~ 1.1 liters

Left lung (w/ polystyrene beads): ~ 0.36 liter

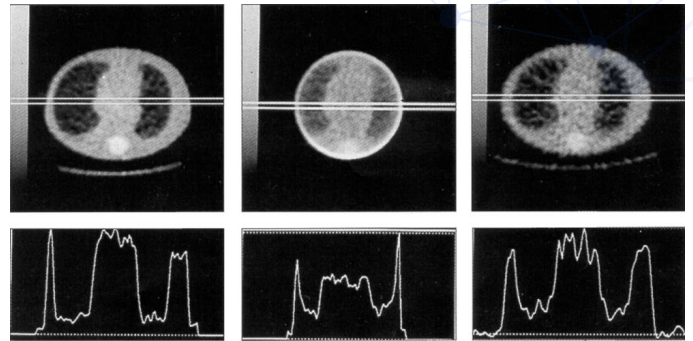
Right lung (w/ polystyrene beads): ~ 0.44 liter

Volume of cylinder with Lungs: ~ 7.4 liters

Shipping

Carton: 14" x 14" x 14" Weight: 10lbs.

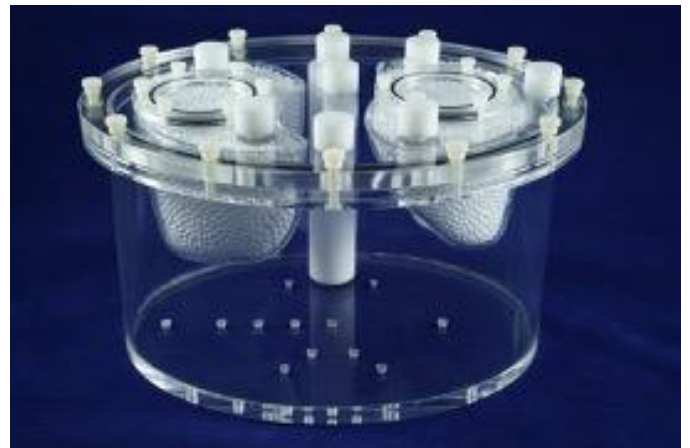
Transmission CT



Fan Beam (fL=110)cm

Fan Beam (fL=63)cm

Parallel Beam



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Shown with optional Cardiac Insert™