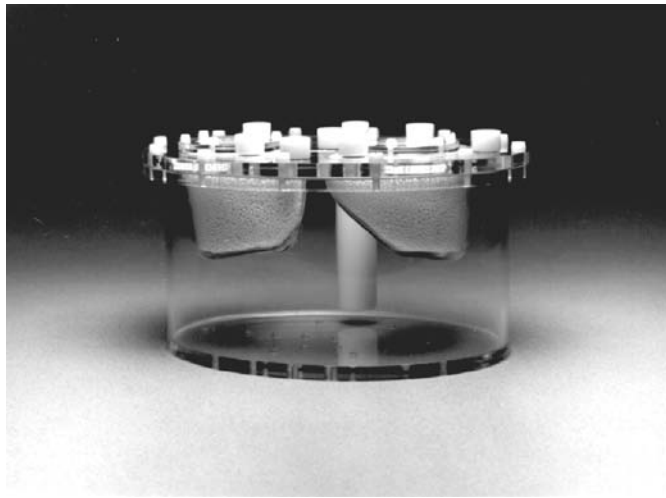
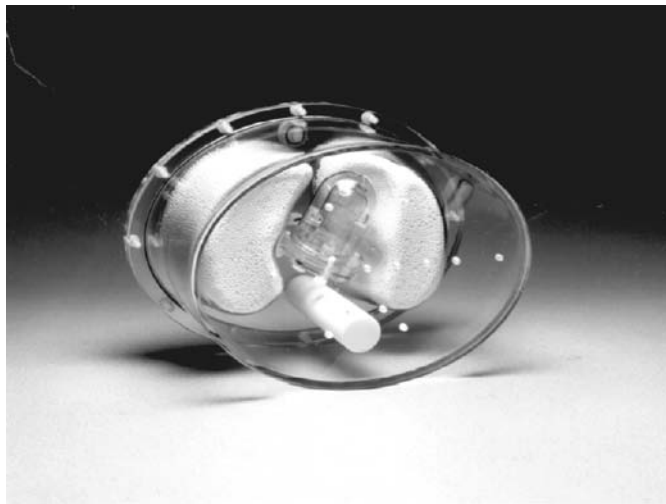


# Elliptical Lung-Spine Body Phantom™



*Elliptical Lung-Spine Body Phantom™*



*Shown with optional Cardiac Insert™*

## Elliptical Lung-Spine Body Phantom™

Model ECT/LUNG/P

### Main Features:

- Includes spine and fillable lung inserts
- Lung inserts can be filled with Styrofoam® beads and water to simulate lung tissue density
- Optional Cardiac Insert™ (Model ECT/CAR/I) may be purchased separately
- Simulates anatomical structures and radioactivity distributions in upper torso of human
- Optional body contour rings may be purchased separately. When used with the body contour rings, the upper torso of a small (~ 30 x 22 cm) patient is simulated

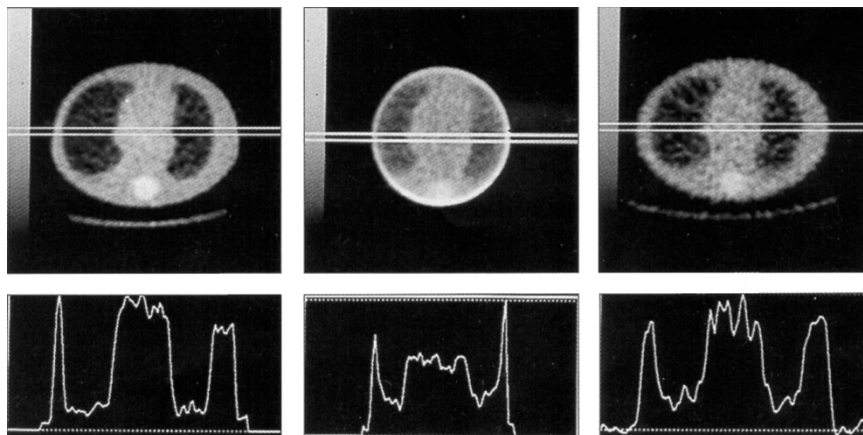
### Main Applications:

- 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: 21.6 cm  
 Cylinder inside diameter along major axis: 30.5 cm  
 Cylinder inside diameter along minor axis: 22.1 cm  
 Cylinder inside height: 18.6 cm  
 Cylinder wall thickness: 6.4 mm

### Transmission CT



*Fan Beam ( $f_L=110$ )cm*

*Fan Beam ( $f_L=63$ )cm*

*Parallel Beam*

### Volumes:

Empty cylinder: ~ 9.5 liters  
 Left lung (w/o Styrofoam® beads): ~ 0.9 liter  
 Right lung (w/o Styrofoam® beads): ~ 1.1 liters  
 Left lung (w/ Styrofoam® beads): ~ 0.36 liter  
 Right lung (w/ Styrofoam® beads): ~ 0.44 liter  
 Volume of cylinder with Lungs: ~ 7.4 liters