**Cardiac Insert™**

**Cardiac Insert™ with Solid/Fillable Defect Set™**

Model ECT/CAR/I

**Main Features:**
- Designed to be used with the various Data Spectrum circular and elliptical cylinders, the Elliptical Lung-Spine Body Phantom™ and the Anthropomorphic Torso Phantom™
- Simulates normal and abnormal myocardial uptake and radioactivity in left ventricular chamber
- Solid inserts simulate transmural and non-transmural cold abnormalities
- Fillable inserts can be used to simulate transmural and non-transmural cold or hot abnormalities

**Main Applications:**
- Evaluation of cardiac ECT data acquisition and reconstruction methods
- Quantitative evaluation of non-uniform attenuation and scatter compensation methods
- Research

**Specifications:**
- **Cardiac Insert**
  - “Ventricle” overall length: 9.3 cm
  - “Ventricle” overall diameter: 6.1 cm
  - “Myocardium” thickness: 1.0 cm
  - “Myocardium” volume: ~ 110 mL
  - “Ventricle” volume: ~ 60 mL
- **Solid Defect Set**
  1. 60° x 2 cm
  2. 45° x 1.5 cm
  3. 60° x 2 cm, with 5 mm wall thickness (non-transmural defect)
- **Fillable Defect Set**
  1. 180° x 2 cm .................. ~ 13 mL
  2. 90° x 2 cm .................. ~ 5.4 mL
  3. 45° x 2 cm .................. ~ 3.8 mL
  4. 45° x 2 cm, with 5 mm thick chamber*.... ~ 1.4 mL

* Only the outer half of the 4th defect (non-transmural) is fillable. Each insert can be installed individually.