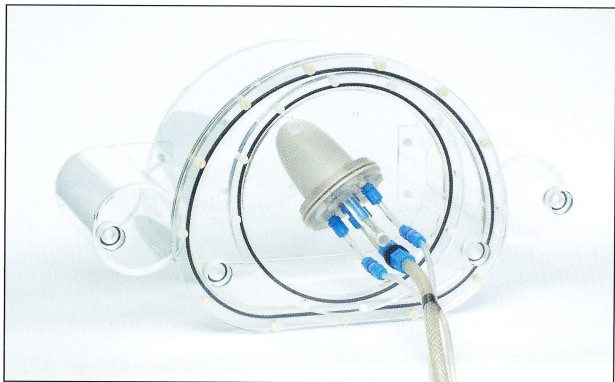


Dynamic Heart Phantom



Dynamic heart phantom simulating the left heart ventricle for quality control of imaging systems in nuclear medicine

Features

- ▶ Validates the evaluation programs of imaging systems in nuclear cardiology
- ▶ Simulates realistically the cardiac action of the left ventricle by a microprocessor controlled pump station
- ▶ Fits into the body-shaped PET and SPECT phantoms

The Dynamic Heart Phantom is designed for validation and optimization of diagnostic imaging systems in nuclear medicine cardiology. It is based on a twin membrane, which simulates the left ventricle realistically. A computer-controlled pumping station compresses and decompresses the inner membrane with variable heartbeat simulation and pump volume. The pumping frequency can be controlled up to 60 cycles per minute. The cardiac volumes can be filled with active or inactive liquids and thus the heart contraction process and the variation of the ventricle wall thickness can be determined for the imaging system to be checked. An ECG triggering at the moments of systole and diastole is available.

The Dynamic Heart Phantom is firmly mounted into a body-shaped thorax phantom according to IEC and NEMA, consequently providing realistic simulation of the heart function to evaluate the processes influencing realistic imaging such as the application of algorithms for attenuation correction.

Ordering Information

L991356 Dynamic Heart Phantom