Dynamic Heart Phantom

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Field of Application
The Dynamic Heart Phantom anatomic ally simulates the left ventricle of the heart, aiming at validation and optimization of methods in diagnostic imaging, primarily for Nuclear Medicine but also for CT and NMR.

Product Specifications

- **New:** Precision display of the left ventricle’s contraction course by the use of a new drive and optimised hydraulic system
- **New:** Operation via panel with only 4 function-keys and text based menu navigation
- **New:** Ejection fraction selectable in 5 steps
- **New:** Contraction frequencies selectable up to 80 beats per minute
- True cardiac display by trigger signal generation
- Application with a standard thorax phantom
- Suitable for Nuclear Medicine, CT and NMR

Advantages
With a Dynamic Heart Phantom procedures, influencing true display, can be controlled (e.g. algorithms for attenuation correction).

Specifications

- ESV volume: approx. 33.5 ml
- Volume Membrane space: approx. 125 ml
- EF: selectable in 5 steps from 45 to 70
- Pump cycle: selectable up to 80/ minute
- Curve course: sinusoidal
- System fluid: distilled water
- Flexible pressure tubing: 150 cm
- Line voltage: 100 - 240 V AC
- Dimension (L x W x H): approx. 890 x 370 x 410 [mm]
- Weight: approx. 35 kg

**Trigger**
- Connection sockets: BNC for ES and ED
- Signal: TTL (0-5 V)
- Load: max. 35 mA

**Integrated Filling Unit**
Unit for automatically, bubble-free filling of the membrane space (myocard) from a holding tank with an electronic controlled peristaltic pump.

Technical specifications are subject to change

Results of an attenuation correction study
(Herz- und Diabeteszentrum Bad Oeynhausen)

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Quality Assurance in Nuclear Medicine