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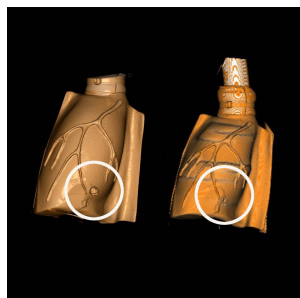
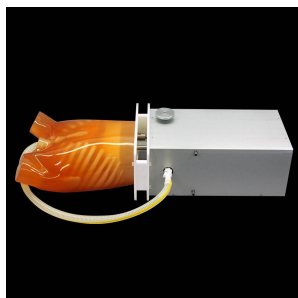
Dynamic Heart and Lung Phantom

Item No. PH-48
Weight
Brand KYOTO KAGAKU, JAPAN

[Read More](#)

SKU:

Categories: Radiology Phantom



Product Description

The motion of diaphragm and tumor, and the realistic heart motions provide various solutions for clinical research

Features

Training skills / Applications

Case / Pathology

Set includes

Packing size (approx.)

Power source

Materials

ANATOMY

CONTROLLABLE PARAMETERS

Other features

CE certified/CE Certification?

Update

The phantom represents movement of the heart, lungs and pulmonary nodule The pulmonary nodule and diaphragm move independently with the respiratory cycle -Three dimensional movement of the pulmonary nodule (linearly and rotationally) -Motion disc represents respiratory movement of abdomen The elastic heart represents systolic and diastolic motion
Respiratory gating CT / Dosimetry / Radiation therapy
Pulmonary nodule / stenosis of coronary arteries
1 drive unit / 1 nodule rotation unit / 1 diaphragm block / 1 chest phantom / 3 types of heart unit / 1 set of simulated tumors (15 types) / 1 tablet PC / 1 storage case
W103 x D70 x H37 cm / W40.6 x D27.6 x H14.7 in
AC110V-240V 50/60Hz
Chest phantom: Urethan resin
Synthetic bones of the chest / Heart with coronary artery / Diaphragm
Heart rate: 30-120 times/min / Ejection volume: 60, 70, 80, 90, 100ml ef rate: 30%, 35%, 40%, 45%, 50%, 55%, 60% / Respiratory rate: 6-24 cycles/min / Linear movement of nodule unit: 8-64mm/ 0-1.5 in / Rotation range of nodule unit: 50-70 degrees
The coronary arteries including stenotic examples are shown -The phantom can be connected to ECG for ECG gating
No
July 5, 2020

Why Choose the Dynamic Heart and Lung Phantom for Respiratory-Gated CT and Radiation Therapy Training in India?

The Dynamic Heart and Lung Phantom (Item No. PH-48, Brand: Kyoto Kagaku, Japan) reproduces the realistic motion of the heart, lungs, and pulmonary nodule to support clinical research in respiratory gating CT, dosimetry, and radiation therapy planning.

The pulmonary nodule and diaphragm move independently through the respiratory cycle, with three-dimensional nodule movement (both linear and rotational) and a motion disc representing abdominal respiratory movement. The elastic heart reproduces systolic and diastolic motion, and coronary arteries — including stenotic examples — are represented and can be connected to ECG for ECG-gated scanning.

Training applications:

- Respiratory gating CT

- Dosimetry
- Radiation therapy planning

Case/pathology simulation: Pulmonary nodule, stenosis of coronary arteries.

Set includes: 1 drive unit, 1 nodule rotation unit, 1 diaphragm block, 1 chest phantom, 3 types of heart unit, 1 set of simulated tumors (15 types), 1 tablet PC, 1 storage case.

Anatomy represented: Synthetic bones of the chest, heart with coronary artery, diaphragm.

Controllable parameters:

- Heart rate: 30-120 beats/min
- Ejection volume: 60, 70, 80, 90, 100ml
- Ejection fraction rate: 30%, 35%, 40%, 45%, 50%, 55%, 60%
- Respiratory rate: 6-24 cycles/min
- Nodule linear movement: 8-64mm (0-1.5in)
- Nodule rotation range: 50-70 degrees

Specifications:

- Packing size approx. W103×D70×H37cm (W40.6×D27.6×H14.7in)
- Power source: AC110V-240V, 50/60Hz (compatible with Indian mains)
- Materials: Urethane resin (chest phantom)
- CE Certification: Not CE certified

Why Buy from SEM Trainers? SEM Trainers & Systems is an authorized distributor of Kyoto Kagaku products in India with over 30 years of experience supplying radiology and radiation therapy training equipment to 1,500+ institutions across 28 states. We provide pan-India delivery and dedicated after-sales support.

Frequently Asked Questions

Q: Can this phantom be connected to ECG equipment? A: Yes — the phantom supports ECG connection for ECG-gated scanning training.

Q: Is this phantom CE certified? A: No — please confirm current certification requirements with your institution's procurement guidelines before including this in a tender-based purchase.

Q: How do I order from SEM Trainers? A: Contact us at sem@semtrainers.com or call +91-88495 63724 for pricing and availability.