

Respiratory Motion Inserts

For Multiple Test Applications

Modus has developed a wide range of optional inserts for the QUASAR™ Respiratory Motion Phantom providing flexibility for multiple applications.

The Respiratory Motion Phantom features a moving cylindrical insert in a body shaped phantom. Motion occurs in the superior - inferior direction with variable speed and amplitude, and with manual or fully programmable controls.



The Respiratory Motion Phantom is delivered with an 8 cm cedar insert for dosimetry in lung density material. The insert has a 2 cm opening to accommodate an acrylic ion chamber holder.

With additional inserts the Phantom is capable of a variety of applications, such as planning system QA, dose distribution measurement for both neutral density and lung density material, 4D CT imaging, and 4D PET CT imaging.

Key Features

- Wide range of inserts is cost-effective and flexible
- Interchangeable inserts can be removed and replaced quickly and easily
- Compatible with both the Respiratory Motion Phantom (100-1011) and Respiratory Motion Assembly (100-1012)



Acrylic Insert
Ion Chamber
Measurements
in Neutral
Density
Material



**Film Cassette
(any film)**
2D Dose
Distribution
Measurement in
Neutral Density



**4D CT
Imaging Insert**
4D CT
Acquisition,
Reconstruction,
Display



**4D PET CT
Imaging Insert**
4D PET CT
Acquisition,
Reconstruction,
Display,
Registration



Hollow Insert with Screw Cap:
Fill with liquid or gel for user-specific tasks

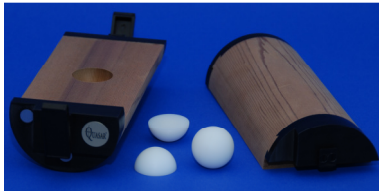
Lung Density Material Inserts



Cedar Insert with Solid Tumour (without drilling - for imaging only)
Imaging of a Tumour within Lung Density Material



Cedar Insert with Solid Tumour (drilled)
Chamber Dosimetry in a Tumour within Lung Density Material



Cedar Lung Tumour Insert (for Gafchromic film)
2D Dose Distribution in and around a Tumour within Lung Density Material



Cedar Ion Chamber Holder Insert (drilled)
Chamber Dosimetry within Lung Density Material

(Right) Offset Cedar Lung Tumour Insert (for Gafchromic film)
For use with Respiratory Motion Rotation Stage



All of the Respiratory Motion Inserts can be modified to enable stationary testing in the Multi-Purpose Body Phantom by using the MP Insert Adapter (left).

Ion chamber holders are available for many FARMER ion chambers. Acrylic holders can also be ordered for MOSFETs, diodes, and other point dose measurement devices. Custom inserts available upon request.

The QUASAR Respiratory Motion Inserts are part of an extensive line of quality assurance tools available from Modus Medical Devices Inc. To find out more, please contact Modus.

Modus reserves the right to make changes without notice. Product may not be exactly as shown.

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Ordering Information

- 500-3305 Acrylic Insert
- 500-3311 Cedar Insert with Solid Tumour
- 500-3312 Cedar Insert with Solid Tumour (drilled)
- 500-3313 Cedar Lung Tumour Insert (split for Gafchromic film)
- 500-3314 Hollow Insert with Screw Cap
- 500-3315 Film Cassette Insert
- 500-3317 4D CT Imaging Insert
- 500-3318 4D PET CT Imaging Insert
- 500-3322 MP Insert Adapter
- 500-3331 Offset Cedar Insert with Solid Tumour
- 500-3332 Offset Cedar Insert with Solid Tumour (drilled)
- 500-3333 Offset Cedar Lung Tumour Insert (split)
- 500-3395 Cedar Ion Chamber Holder Insert