

Diagnostic X-Ray Phantoms

Model 76-2 Series



Model 76-211



Model 76-212



Model 76-213



Model 76-214

- Phantoms conform to AAPM recommendations contained in Report No. 31, “Standardized Methods for Measuring Diagnostic X-Ray Exposure”
- Patient-equivalent acrylic and aluminum phantoms provide the necessary attenuation between the source and AEC or ABC detectors
- Helps you comply with JCAHO requirements for radiographic exposure measurements
- These phantoms are recommended in AAPM Report No. 60, “Instrumentation Requirements of Diagnostic Radiological Physicists”

Introduction

JCAHO requires that x-ray exposure measurements be determined for commonly used projections in all radiographic suites. In order to provide this information when using automatic exposure control (AEC) or automatic brightness control (ABC) systems, specially designed phantoms must be used. Attenuating material must be used between the source and AEC or ABC detectors. Since these detectors are energy dependent, measurement of skin entrance exposure requires the use of patient-equivalent phantoms for meaningful results.

Applications

AAPM Report No. 31 recommends the use of four special phantoms for use in diagnostic x-rays. These acrylic and aluminum phantoms are patient-equivalent, and are specifically designed to conform to the AAPM recommendations.

Chest X-Ray Phantom (Model 76-211)

The Chest Phantom consists of four sheets of 25 x 25 x 2.54 cm clear acrylic, one sheet of 25 cm x 25 cm x 1 mm and one sheet of 25 cm x 25 cm x 2 mm type-1100 high-purity aluminum, and spacers to provide a 5.08 cm air gap.

Weight 17.5 lb (8 kg)



Abdomen/Lumbar Spine Phantom (Model 76-212)

The Phantom consists of five sheets of 25 x 25 x 2.54 cm and one sheet of 25 x 25 x 5.08 cm clear acrylic to achieve a 17.78 cm thick phantom. In order to provide additional attenuation in the spinal region, a 7 cm x 25 cm x 4.5 mm thick piece of high-purity alloy aluminum is included.

Weight 37 lb (17 kg)



Skull X-Ray Phantom (Model 76-213)

The Skull Phantom has the same configuration as the Chest Phantom, but without the air gap. It consists of four sheets of 25 x 25 x 2.54 cm clear acrylic, one sheet of 25 cm x 25 cm x 1 mm and one sheet of 25 cm x 25 cm x 2 mm high-purity alloy aluminum, and a center sheet of 25 x 25 x 5.08 cm clear acrylic.

Weight 26.5 lb (12 kg)



Extremity X-Ray Phantom (Model 76-214)

The Extremity Phantom consists of one 25 x 25 x 2 cm piece of high-purity alloy aluminum sandwiched between two sheets of 25 x 25 x 2.54 cm clear acrylic.

Weight 10 lb (4.5 kg)



Make-Your-Own-Phantom Modular Kit (Model 76-215)

This kit contains all the components needed to make any one of the phantoms on this page. It includes:

- Five sheets 25 x 25 x 2.54 cm thick acrylic
- One sheet 25 x 25 x 5.08 cm thick acrylic
- One sheet 25 cm x 25 cm x 1 mm thick aluminum
- One sheet 25 cm x 25 cm x 2 mm thick aluminum
- One sheet 7 cm x 25 cm x 4.5 mm thick aluminum
- Spacers for a 5.08 cm air gap

Weight 34 lb (15.3 kg)

For more information, receive our full product catalog, or order online, contact **Radiation Management Services** business of **Fluke Biomedical**: 440.248.9300 or www.flukebiomedical.com/rms.

Specifications are subject to change without notice.

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