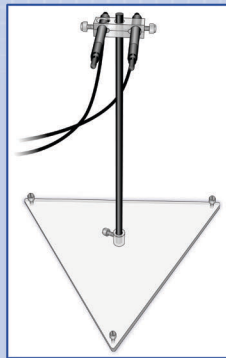


miniPHANTOM

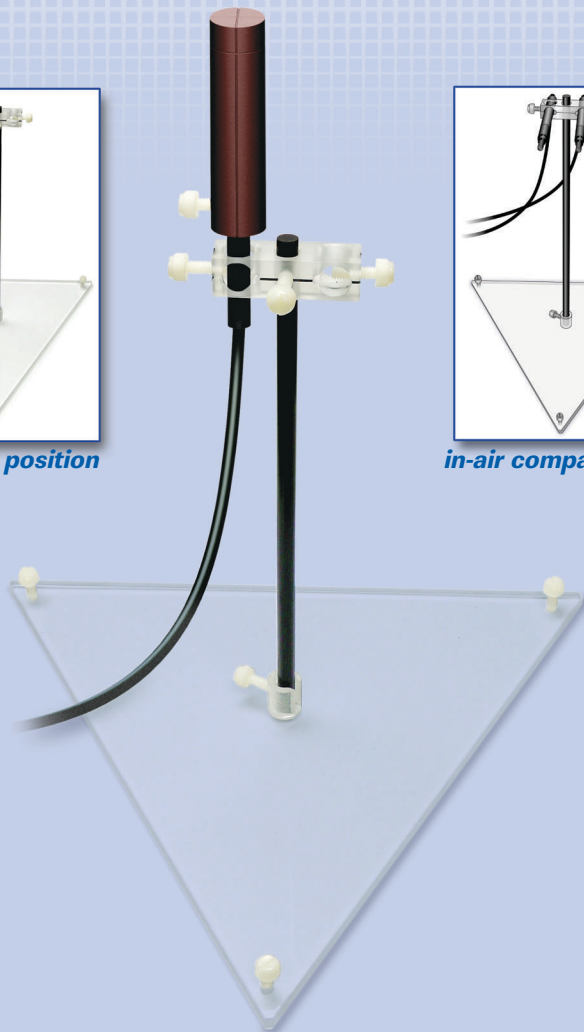
for measurement of head-scatter factors



horizontal position



in-air comparison jig



The Standard Imaging mini**PHANTOM** allows the measurement of Head-scatter factors with a standard Farmer Type Ion Chamber.

Head-scatter, the stray radiation that bounces around inside the head of a linear accelerator, occurs with each machine. Some of this radiation is scattered forward and hits the patient. This radiation must be taken into account when determining the total radiation dose given.

The detection system is comprised of an ion chamber and the columnar mini**PHANTOM**, a d_{\max} build up cap which is 3 cm in diameter and 12 cm in length.^{1,2} Scribed lines on the mini**PHANTOM** facilitate alignment. The stand also allows the mini**PHANTOM** to be positioned horizontally when horizontal beams need to be measured.

1. Measurement of Head-scatter factors with cylindrical build-up caps and columnar miniphantoms; P.A. Jursinic and B.R. Thomadsen; *Medical Physics*. 26(4) April 1999.
2. Accuracy of dose calculations in Megavoltage photon beams; W.A. Wagenaar; 2000.

- ▶ Measure head-scatter factors simply and easily
- ▶ Designed to work with standard Farmer Type Ion Chambers
- ▶ Can be positioned horizontally to measure horizontal beams
- ▶ Scribed lines for easy alignment
- ▶ Customized stand designed to minimize scatter
- ▶ The stand is also useful as an in-air comparison jig, allowing two chambers to be positioned side-by-side in a highly reproducible fashion

Specifications

mini**PHANTOM** Detection System ¹ REF 72195 is comprised of:
REF 72194 mini**PHANTOM** for Exradin® A12 Farmer Type Ion Chamber ²
REF 72193 mini**PHANTOM** Stand/In-Air Comparison Jig

¹ Individual components can be sold separately.

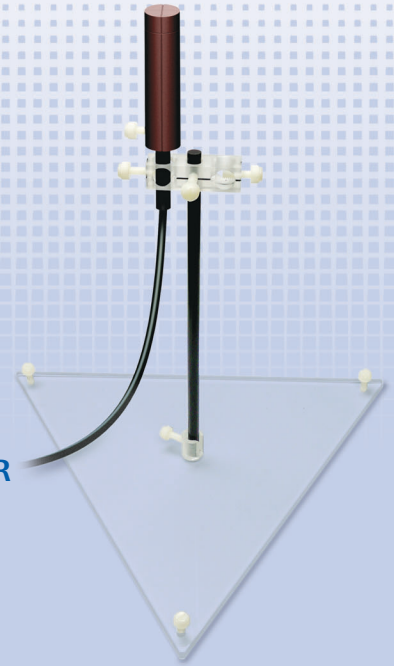
² mini**PHANTOM** available for other Farmer Type Ion Chambers.
Contact Standard Imaging for details.

Options:

REF 92700 Exradin® A12 Farmer Type Ion Chamber

REF 80031 Calibration for therapy ionization chamber, cobalt point in WATER

REF 80032 Calibration for therapy ionization chamber, cobalt point in AIR



MAX 4000 Electrometer

an ideal addition for all of your external beam measurements



Exceptional sensitivity and a wide range makes the MAX 4000 (REF 90015) the ideal electrometer for all of your external beam measurements.

- ▶ Intuitive, simple and straightforward user interface
- ▶ Built in digital filter virtually eliminates noise
- ▶ Comprehensive display



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