



## **Model A12 Exradin Farmer- Type Chamber, 0.65 cc Model A12S Exradin Farmer- Type Chamber, 0.25 cc**



### **For absolute dosimetry calibrations in water, air, or other phantom material.**

- Farmer- Type chamber geometry with the advantage of more uniform field characteristics.
- Inherently waterproof construction for use in most water phantoms, eliminating the need for additional protective coverings.
- Completely characterized in TG- 51.
- Constructed of C552 air- equivalent conducting plastic, providing robust design and excellent conductivity since the shell, collector and guard are all made of the same material. This eliminates the problem of fragility or flaking of painted conductive layers found in many chambers.
- Axially symmetric design and homogenous construction allow for more uniform field lines and a precise calibration for TG- 51 due to completely isotropic response throughout the chamber. Uniform spatial resolution ensures 100% collection efficiency.
- Complete guarding results in little to no variation of response throughout the radiation field, allowing for a more precise measurement.
- Two separate stem pieces of 10.1 cm and 12.7 cm can be coupled together for flexibility of operation.
- The chamber vents through a flexible tube that surrounds the triaxial cable. This vent tube is sealed to the chamber body and open near the connector.
- Matching 2.8 mm Cobalt- 60 buildup cap of C552 air- equivalent plastic and

handsome wooden storage case included.

- No variation of polarizing potential and no stem or voltage soakage effects mean the ionization current may be read immediately.

<b>A12 and A12S Exradin Farmer Type Chambers</b>					
<b>Centroid of</b>	A12	12.9 mm	<b>Axial Length</b>	A12	24 mm
<b>Collecting Volume (from tip)</b>	A12S	5.8 mm	<b>Collecting Volume</b>	A12S	10 mm
<b>Outside Diameter Sensitive Region</b>	7.1 mm		<b>Wall Thickness</b>	0.5 mm	
			<b>Collector Diameter</b>	1.0 mm	
<b>Nominal Leakage</b>	<10 -15 amps		<b>Maximum Polarizing Voltage</b>	<1000 volts	

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